

Supplemental Table 11. Bulk RNA-seq results of edge vs. core fractions in GBM43 CTH knockdown cells invading 3D hydrogels.

gene_id	CTHKD_INV1	CTHKD_INV2	CTHKD_INV3	CTHKD_CORE1	
	CTHKD_CORE2	CTHKD_CORE3	CTH_KD_Inv	CTH_KD_Core	
	log2FoldChange	pvalue	padj	gene_name	gene_chr
	gene_start	gene_end	gene_strand	gene_length	
	gene_biotype	gene_description	tf_family		
CTHKD_INV1_count	CTHKD_INV2_count	CTHKD_INV3_count			
CTHKD_CORE1_count	CTHKD_CORE2_count				
CTHKD_CORE3_count	CTHKD_INV1_fpkm	CTHKD_INV2_fpkm			
CTHKD_INV3_fpkm	CTHKD_CORE1_fpkm	CTHKD_CORE2_fpkm			
CTHKD_CORE3_fpkm					
ENSG00000131747	10741.2322	9550.377604	14883.06969		
2203.040041	2268.200216	2206.753703	11724.89316		
2225.997987	2.397045276	1.03E-50	1.58E-46		TOP2A
17	40388516	40417950	-	6437	
protein_coding	DNA topoisomerase II alpha [Source:HGNC				
Symbol;Acc:HGNC:11989]	-	9284	10303	15221	2193
2249	78.87626463	70.56903012	109.5373254		2482
16.47237949	16.80261459	16.30992568			
ENSG0000011426	9040.498534	7242.269263	9847.407849		
1905.684887	2172.244929	2040.92828	8710.058549		
2039.619365	2.094231832	3.77E-48	2.88E-44		ANLN
7	36389806	36453791	+	6012	
protein_coding	anillin actin binding protein [Source:HGNC				
Symbol;Acc:HGNC:14082]	-	7814	7813	10071	1897
2080	71.08028291	57.29712229	77.598992		2377
15.25631248	17.22934659	16.15066462			
ENSG00000072571	1162.746484	1087.313688	1631.945557		
178.8149235	168.1502174	215.8674143	1294.00191		
187.6108517	2.786596573	4.47E-40	2.28E-36		HMMR
5	163460203	163491945	+	3936	
protein_coding	hyaluronan mediated motility receptor [Source:HGNC				
Symbol;Acc:HGNC:5012]	-	1005	1173	1669	178
220	13.96386639	13.13944073	19.64281393		184
2.186583814	2.037142132	2.609237592			
ENSG00000170312	2010.799392	1859.463989	2359.427578		
514.3440497	462.413098	548.4994754	2076.563653		
508.4188743	2.030422938	2.70E-36	1.03E-32		CDK1
10	60778331	60794852	+	3931	
protein_coding	cyclin dependent kinase 1 [Source:HGNC				
Symbol;Acc:HGNC:1722]	-	1738	2006	2413	512
559	24.17917291	22.49892888	28.43522925		506
6.297499383	5.609266457	6.638268277			
ENSG00000143228	1648.670388	1440.482073	1948.752243		
303.3826231	381.0795689	258.0596816	1679.301568		

314.1739579	2.417354048	6.11E-36	1.87E-32	NUF2
1	163266576	163355764	+ 3362	
protein_coding	"NUF2, NDC80 kinetochore complex component [Source:HGNC Symbol;Acc:HGNC:14621]"			
302	417	263	- 1425 1554	1993
27.46072793	4.343206217	5.405015499	20.37920619	
ENSG00000066279	3180.487647	2451.785768	4983.838527	
582.6553688	498.9674931	358.1436646	3538.70398	
479.9221755	2.882415714	1.52E-35	3.87E-32	ASPM
1	197084128	197146694	- 10887	
protein_coding	abnormal spindle microtubule assembly [Source:HGNC Symbol;Acc:HGNC:19048]			
365	13.80896821	10.71152761	2749 2645 5097 580	546
2.57585248	2.185460782	1.565058867	21.68746876	
ENSG00000112984	1314.308464	1322.759278	1757.103754	
274.2498546	246.7421669	285.5337162	1609.437997	
268.8419126	2.582256429	4.53E-33	9.19E-30	KIF20A
5	138178719	138187715	+ 3958	
protein_coding	kinesin family member 20A [Source:HGNC Symbol;Acc:HGNC:9787]			
291	15.69629868	15.8957909	2241 273	270
3.334940375	2.972669122	3.432126092	26.22820216	
ENSG00000126787	1228.6933	1117.903076	1757.103754	
222.0117871	248.5698867	266.8906213	1367.900043	
245.8240983	2.47618958	4.81E-33	9.19E-30	DLGAP5
14	55148112	55191678	- 3667	
protein_coding	DLG associated protein 5 [Source:HGNC Symbol;Acc:HGNC:16864]			
272	15.83829105	14.50007858	1797 221	272
2.913953252	3.232336689	3.462613596	22.70071953	
ENSG00000164104	3198.999033	4128.640381	5450.248372	
1027.683521	964.1221707	1029.29508	4259.295929	
1007.033591	2.080784239	3.45E-31	5.86E-28	HMGB2
4	173331695	173335125	- 2775	
protein_coding	high mobility group box 2 [Source:HGNC Symbol;Acc:HGNC:5000]			
1049	54.49126135	70.76543542	5574 1023	1055
17.82435662	16.56716013	17.64649822	93.04786931	
ENSG00000118193	1168.531292	1080.82503	1486.253593	
301.3734666	242.1728675	276.7027765	1245.203305	
273.4163702	2.187908608	5.98E-30	9.15E-27	KIF14
1	200551497	200620734	- 7277	
protein_coding	kinesin family member 14 [Source:HGNC Symbol;Acc:HGNC:19181]			
282	7.590383372	7.064478919	1520 300	265
1.993288202	1.586909269	1.809017505	9.675951188	
ENSG00000166851	1811.801984	2178.335181	3182.733845	
323.4741875	447.7913399	521.0254408	2390.957003	
430.7636561	2.472585103	3.01E-29	4.19E-26	PLK1
16	23677656	23690367	+ 4760	

protein_coding	polo like kinase 1 [Source:HGNC	Symbol;Acc:HGNC:9077]								
-	1566	2350	3255	322	490	531				
17.99200312	21.76681407		31.6771788		3.270770977					
4.485880757	5.207551867									
ENSG00000137807	1969.148772		1642.557422		2560.854052					
530.4173012	491.656614		464.1149407		2057.520082					
495.3962853	2.054308954		5.36E-29		6.82E-26	KIF23				
15	69414246		69448427		+	6576				
protein_coding	kinesin family member 23 [Source:HGNC	Symbol;Acc:HGNC:6392]	-	1702	1772	2619	528	538		
473	14.15443257		11.88053152		18.44914099					
3.882159142	3.565160358		3.357726916							
ENSG00000113810	5745.471682		4838.684955		6340.04493					
2022.215961	1828.633615		1885.896228		5641.400522					
1912.248601	1.56079422		8.30E-29		9.76E-26		SMC4			
3	160399274		160434962		+	8457				
protein_coding	structural maintenance of chromosomes 4 [Source:HGNC	Symbol;Acc:HGNC:14013]	-	4966	5220	6484	2013	2001		
1922	32.1133119		27.21373368		35.51641577					
11.50876337	10.31072861		10.60921104							
ENSG00000145386	1986.503197		2264.541637		3090.820793					
591.6965728	568.4208438		390.5237767		2447.288543					
516.8803978	2.24338173		1.73E-28		1.83E-25		CCNA2			
4	121816444		121823933		-	2798				
protein_coding	cyclin A2 [Source:HGNC	Symbol;Acc:HGNC:1578]	-	1717	2443	3161	589	622	398	33.55964033
38.49547783	52.33343501		10.17814893		9.687267053					
6.64020363										
ENSG00000109805	2250.290459		1750.083754		2524.675511					
580.6462123	623.2524364		534.7624581		2175.016575					
579.5537023	1.907649958		1.80E-28		1.83E-25		NCAPG			
4	17810902		17844862		+	4921				
protein_coding	non-SMC condensin I complex subunit G [Source:HGNC	Symbol;Acc:HGNC:24304]	-	1945	1888	2582	578	682		
545	21.61528436		16.91541211		24.30554304					
5.679049968	6.039341771		5.169983691							
ENSG00000138180	1502.893217		1354.275617		1736.569987					
434.9823701	409.4092251		330.6696301		1531.246274					
391.6870751	1.966870859		4.51E-28		4.31E-25		CEP55			
10	93496632		93529092		+	3271				
protein_coding	centrosomal protein 55 [Source:HGNC	Symbol;Acc:HGNC:1161]	-	1299	1461	1776	433	448		
337	21.71817457		19.69262586		25.15155689					
6.400421401	5.96837452		4.809449762							
ENSG00000198830	13740.07686		13586.32287		17412.6342					
5173.577843	5575.459112		5599.79697		14913.01131					
5449.611308	1.452351544		2.04E-27		1.83E-24		HMGN2			
1	26472450		26475972		+	2509				
protein_coding	high mobility group nucleosomal binding domain 2	[Source:HGNC	Symbol;Acc:HGNC:4986]	-	11876	14657	17808			

5150	6101	5707	258.8595789	257.5599811	
328.7887442	99.24480533		105.9641507	106.1825735	
ENSG00000134057	3061.320594		2934.727312	4276.890272	
879.0059443	958.6390114		1042.050882	3424.312726	
959.8986125	1.834896303		2.65E-27	2.25E-24	CCNB1
5	69167010		69178245	+	2558
protein_coding	cyclin B1 [Source:HGNC Symbol;Acc:HGNC:1579]				-
2646	3166	4374	875	1049	1062
54.56879056		79.21012422		16.53898028	56.56971783
19.3807247					17.87037005
ENSG00000140416	12895.49484		10360.5329	14291.50165	
4403.066347	3835.469906		4503.779234	12515.84313	
4247.438496	1.559109297		3.63E-27	2.92E-24	TPM1
15	63042632		63071915	+	12876
protein_coding	tropomyosin 1 [Source:HGNC Symbol;Acc:HGNC:12010]				
-	11146	11177	14616	4383	4197
47.34049378	38.27174293		52.58356446	16.45855561	4590
14.20419412	16.64093612				
ENSG00000171241	1322.407195		1110.487467	1627.056564	
354.6161124	293.3490207		328.707199	1353.317076	
325.557444	2.055914112		7.61E-27	5.82E-24	SHCBP1
16	46580554		46621626	-	4459
protein_coding	SHC binding and spindle associated 1 [Source:HGNC Symbol;Acc:HGNC:29547]				
335	14.01856213		1143	1198	1664
3.827704912	3.137084073		11.84549745	17.2869472	353
ENSG00000089685	2543.001763		2593.609292	4092.086372	321
752.4290883	608.6306784		798.7094328	3076.232476	
719.9230665	2.095656073		8.50E-27	6.19E-24	BIRC5
17	78214186		78225636	+	3815
protein_coding	baculoviral IAP repeat containing 5 [Source:HGNC Symbol;Acc:HGNC:593]				
814	31.50850943		2198	2798	4185
9.49267237	7.607435601		32.33606177	50.81633926	749
ENSG00000117650	963.7490759		897.2887043	1253.53757	666
251.1445555	239.4312879		231.5668626	1038.191783	
240.7142353	2.108874732		9.33E-27	6.48E-24	NEK2
1	211658657		211675630	-	3095
protein_coding	NIMA related kinase 2 [Source:HGNC Symbol;Acc:HGNC:7745]				
236	14.7190256		833	968	1282
3.905535339	3.688919989		13.78950453	19.18800521	250
ENSG00000138778	1384.883126		1151.273317	1784.482109	262
321.465031	237.6035681		157.9756986	1440.212851	
239.0147659	2.591466288		1.35E-26	8.99E-24	CENPE
4	103105806		103198409	-	9444
protein_coding	centromere protein E [Source:HGNC Symbol;Acc:HGNC:1856]				
161	6.931590291		1197	1242	1825
1.638306734	1.199709139		0.795821987	8.951778883	320
					260

ENSG00000164176	3323.950894	2544.480882	3698.03361	
934.2577465	958.6390114	1016.539278	3188.821795	
969.812012	1.717098861	2.71E-26	1.73E-23	EDIL3
5	83940554	84384793	- 5738	
protein_coding	EGF like repeats and discoidin domains 3 [Source:HGNC Symbol;Acc:HGNC:3173]			
	-	2873 2745	3782 930	1049
1036	27.38229184	21.09190288	30.53257527	
7.836526763	7.966609724	8.428402113		
ENSG00000157456	1225.222415	1082.678933	1676.924284	
272.2406982	260.4500651	337.5381387	1328.27521	
290.0763006	2.195386016	2.88E-26	1.76E-23	CCNB2
15	59105078	59125045	+ 2801	
protein_coding	cyclin B2 [Source:HGNC Symbol;Acc:HGNC:1580]			
	-			-
1059	1168 1715	271 285	344	20.67652563
	18.38500244	28.36308532	4.677969636	4.433945482
	5.733124455			
ENSG00000101447	1143.078136	1065.993812	1820.660651	
276.2590111	249.4837465	282.5900696	1343.244199	
269.4442757	2.318114995	3.14E-26	1.85E-23	FAM83D
20	38926312	38953106	+ 2475	
protein_coding	family with sequence similarity 83 member D [Source:HGNC Symbol;Acc:HGNC:16122]			
	-		988 1150	1862
275	273 288	21.83114198	20.48597296	
34.85033276	5.372280832	4.806689199	5.432044516	
ENSG00000169679	1744.698207	1446.04378	1998.619963	
417.9045404	536.435748	438.6033372	1729.787316	
464.3145419	1.896750212	7.39E-26	4.19E-23	BUB1
2	110637698	110678114	- 6032	
protein_coding	BUB1 mitotic checkpoint serine/threonine kinase [Source:HGNC Symbol;Acc:HGNC:1148]			
	-		1508 1560	2044
416	587 447	13.67208411	11.40242498	
15.69719359	3.334519137	4.240678673	3.459331855	
ENSG00000080986	1088.700937	1050.235643	1612.389588	
271.2361199	272.3302435	182.5060866	1250.442056	
242.02415	2.369084925	9.20E-26	5.02E-23	NDC80
18	2571511 2616635	+ 3600		
protein_coding	"NDC80, kinetochore complex component [Source:HGNC Symbol;Acc:HGNC:16909]"			
	-	941 1133	1649 270	298
186	14.2949235	13.87590657	21.21878981	
3.626289562	3.607217764	2.411884349		
ENSG00000112742	1330.505927	973.2986979	1482.342399	
321.465031	279.6411225	304.176811	1262.049008	
301.7609882	2.064338886	1.79E-25	9.41E-23	TTK
6	80003887	80042527	+ 4579	
protein_coding	TTK protein kinase [Source:HGNC Symbol;Acc:HGNC:12401]			
	-	1150 1050	1516 320	306 310
13.73478639	10.11003394	15.3366679	3.378940554	
2.912120762	3.160363855			
ENSG00000088325	5677.210943	5294.744917	8317.153328	
1791.16297	1888.034507	2004.623306	6429.703062	

1894.606928	1.762884343	2.20E-25	1.12E-22	TPX2
20	31739271	31801805	+ 3605	
protein_coding	"TPX2, microtubule nucleation factor [Source:HGNC			
Symbol;Acc:HGNC:1249]"	-	4907 5712	8506 1783	2066
2043	74.43985211	69.85811901	109.3006048	
23.9137283	24.97374344	26.4550833		
ENSG00000138160	2199.384146	1887.272523	2951.973418	
576.6278994	701.8443859	555.367984	2346.210029	
611.2800898	1.94009167	3.53E-25	1.74E-22	KIF11
10	92593286	92655395	+ 4860	
protein_coding	kinesin family member 11 [Source:HGNC			
Symbol;Acc:HGNC:6388]"	-	1901 2036	3019 574	768
566	21.39146658	18.47036434	28.77592544	
5.710535552	6.8862621	5.436585191		
ENSG00000137801	1092.171822	1835.363259	2315.426649	
353.6115342	288.7797213	338.5193542	1747.65391	
326.9702032	2.419046661	3.73E-25	1.78E-22	THBS1
15	39581079	39599466	+ 9158	
protein_coding	thrombospondin 1 [Source:HGNC Symbol;Acc:HGNC:11785]"			
-	944 1980	2368 352	316 345	
5.637234068	9.532317714	11.9779781	1.858417305	
1.503644054	1.758589564			
ENSG00000137812	1283.070498	974.225649	1812.838264	
287.3093715	286.0381416	248.2475264	1356.71147	
273.8650132	2.308440825	4.30E-25	1.99E-22	KNL1
15	40594020	40664342	+ 10250	
protein_coding	kinetochore scaffold 1 [Source:HGNC			
Symbol;Acc:HGNC:24054]"	-	1109 1051	1854 286	313
253	5.91701123	4.520774125	8.378925331	
1.349097645	1.330696669	1.152239321		
ENSG00000087586	1765.523517	1962.355565	3077.131616	
516.3532061	514.503111	582.8420186	2268.336899	
537.8994452	2.076526476	1.06E-24	4.76E-22	AURKA
20	56369389	56392337	- 2928	
protein_coding	aurora kinase A [Source:HGNC Symbol;Acc:HGNC:11393]"			
-	1526 2117	3147 514	563 594	
28.50218627	31.87746251	49.78839499	8.487763364	
8.37907196	9.470249227			
ENSG00000117724	3585.424233	2869.840732	5004.372294	
1102.02231	919.3430367	1021.445356	3819.879086	
1014.270234	1.913229481	2.30E-24	1.00E-21	CENPF
1	214603195	214664588	+ 11690	
protein_coding	centromere protein F [Source:HGNC			
Symbol;Acc:HGNC:1857]"	-	3099 3096	5118 1097	1006
1041	14.4977891	11.67670743	20.28094682	
4.537256515	3.750093252	4.157021342		
ENSG00000138182	1789.819712	1391.353662	1851.9502	
501.2845328	508.1060918	388.5613457	1677.707858	
465.9839901	1.847699076	2.64E-24	1.12E-21	KIF20B
10	89701610	89774939	+ 6851	

protein_coding	kinesin family member 20B [Source:HGNC					
Symbol;Acc:HGNC:7212]	-	1547	1501	1894	499	556
396	12.34897919	9.65963425		12.80644129		
3.521663001	3.5365469	2.698281491				
ENSG00000166803	1004.242735	723.948841		1004.198973		
229.0438346	168.1502174	207.0364746		910.7968496		
201.4101756	2.177481188	7.17E-24		2.96E-21		PCLAF
15	64364311	64387687		-	3734	
protein_coding	PCNA clamp associated factor [Source:HGNC					
Symbol;Acc:HGNC:28961]	-	868	781	1027	228	184
211	12.71276808	9.221693387		12.74085537		
2.952308588	2.147346393	2.637874791				
ENSG00000183856	1484.38183	1616.60279		2313.471053		
496.2616417	378.3379893	479.814389		1804.818557		
451.47134	1.999883093	8.81E-24		3.54E-21		IQGAP3
1	156525405	156572604		-	6742	
protein_coding	IQ motif containing GTPase activating protein 3					
[Source:HGNC Symbol;Acc:HGNC:20669]	-			1283	1744	2366
494	414	489	10.40716933	11.40490548		
16.25655239	3.542741113	2.675901917		3.385837781		
ENSG00000163453	335.518886	842.598587		1059.933483		
64.29300621	65.79791117	87.32818123		746.0169854		
72.47303287	3.364849826	2.39E-23		9.35E-21		IGFBP7
4	57030773	57110385		-	1930	
protein_coding	insulin like growth factor binding protein 7					
[Source:HGNC Symbol;Acc:HGNC:5476]	-			290	909	1084
64	72	89	8.217418428	20.76541104		
26.01803113	1.603333554	1.625675217		2.15267632		
ENSG00000139734	1690.321008	1370.960737		1994.708769		
430.9640572	539.1773277	421.9226734		1685.330172		
464.0213528	1.860146899	2.45E-23		9.38E-21		DIAPH3
13	59665583	60163987		-	7442	
protein_coding	diaphanous related formin 3 [Source:HGNC					
Symbol;Acc:HGNC:15480]	-	1461	1479	2040	429	590
430	10.73631544	8.762185966		12.69822323		
2.787204554	3.454784351	2.697272507				
ENSG00000090889	2676.052356	2155.161402		3614.920745		
756.4474012	852.6312656	703.5315275		2815.378168		
770.8700648	1.868564691	2.61E-23		9.72E-21		KIF4A
X	70290090	70420832		+	4533	
protein_coding	kinesin family member 4A [Source:HGNC					
Symbol;Acc:HGNC:13339]	-	2313	2325	3697	753	933
717	27.90516703	22.6136776		37.7803683		
8.031755394	8.969216815	7.38379231				
ENSG00000156970	1204.397104	1179.081851		1750.259165		
391.7855066	348.1806133	334.5944921		1377.912707		
358.1868707	1.944083158	6.65E-23		2.42E-20		BUB1B
15	40161023	40221136		+	4476	
protein_coding	BUB1 mitotic checkpoint serine/threonine kinase B					
[Source:HGNC Symbol;Acc:HGNC:1149]	-			1041	1272	1790

390	381	341	12.7190702	12.52942069	
18.52530679	4.21284757		3.709313119	3.556397833	
ENSG00000068489	1477.44006		1130.880392	2098.355401	
407.8587581	315.2816577		307.1204576	1568.891951	
343.4202911	2.192038103		1.20E-22	4.27E-20	PRR11
17	59155499		59204705	+ 4080	
protein_coding	proline rich	11	[Source:HGNC Symbol;Acc:HGNC:25619]		
-	1277	1220	2146	406	345 313
17.11691314	13.18358809		24.36531387	4.81135151	
3.684830622	3.581213478				
ENSG00000156802	4622.061894		4049.849534	4893.881073	
1416.455293	1673.277436		1882.952582	4521.930834	
1657.56177	1.447740973		2.16E-22	7.51E-20	ATAD2
8	123319850		123416350	- 7118	
protein_coding	"ATPase family,		AAA domain containing 2 [Source:HGNC		
Symbol;Acc:HGNC:30123]"	-		3995	4369	5005 1410 1831
1919	30.69400169		27.06188343	32.57230959	
9.577724609	11.20957013		12.58528419		
ENSG00000186185	1140.764212		1261.580503	2168.756887	
292.3322626	364.6300911		307.1204576	1523.700534	
321.3609371	2.245197124		4.37E-22	1.49E-19	KIF18B
17	44924709		44947711	- 4655	
protein_coding	kinesin family member 18B		[Source:HGNC		
Symbol;Acc:HGNC:27102]"	-		986	1361	2218 291 399
313	11.58382379		12.8905782	22.0721334	
3.022557143	3.735182345		3.138850911		
ENSG00000177283	1729.657705		2422.123331	1652.479323	
6065.643305	5112.132154		6742.91305	1934.753453	
5973.562836	-1.626021683		6.41E-22	2.13E-19	FZD8
10	35638249		35642278	- 4030	
protein_coding	frizzled class receptor 8		[Source:HGNC		
Symbol;Acc:HGNC:4046]"	-		1495	2613	1690 6038 5594
6872	20.28760868		28.58698288	19.42603265	
72.44180769	60.48894551		79.60202951		
ENSG00000163535	1507.521063		1054.870398	1379.673565	
353.6115342	423.1171232		349.3127249	1314.021676	
375.3471274	1.806689745		2.11E-21	6.85E-19	SG02
2	200510008		200583782	+ 6022	
protein_coding	shugoshin 2		[Source:HGNC Symbol;Acc:HGNC:30812]" -		
1303	1138	1411	352	463	356 11.83309571
8.331735395		10.85397254	2.826201541	3.350416799	
2.759658119					
ENSG00000146918	2103.356326		1925.27752	2681.123257	
629.8705452	814.2491508		710.4000361	2236.585701	
718.173244	1.638571192		4.05E-21	1.29E-18	NCAPG2
7	158631311		158704829	- 6988	
protein_coding	non-SMC condensin II complex subunit G2		[Source:HGNC		
Symbol;Acc:HGNC:21904]"	-		1818	2077	2742 627 891
724	14.22773263		13.10441259	18.17678247	
4.338262842	5.556270817		4.83650572		

ENSG00000135476	866.5642951	897.2887043	1369.895581	
255.1628684	262.2777848	251.191173	1044.58286	
256.2106087	2.027767719	4.24E-21	1.32E-18	ESPL1
12	53268299	53293643	+ 8890	
protein_coding	"extra spindle pole bodies like 1, separase [Source:HGNC Symbol;Acc:HGNC:16856]"			
	-		749 968	1401
254	287 256	4.607599999	4.800733018	
7.300268443	1.381443643	1.406820647	1.344262985	
ENSG00000123485	990.3591944	1022.427108	1393.362743	
339.547439	276.8995429	320.8574749	1135.383015	
312.4348189	1.862338071	5.01E-21	1.53E-18	HJURP
2	233833416	233854566	- 3821	
protein_coding	Holliday junction recognition protein [Source:HGNC Symbol;Acc:HGNC:25444]			
	-	856 1103	1425 338	303
327	12.25156137	12.72718722	17.27588413	
4.277016041	3.455605755	3.994999698		
ENSG00000162511	3820.287453	3923.784179	6080.92835	
1469.697939	1184.362401	1495.372452	4608.333328	
1383.144264	1.736548288	5.23E-21	1.57E-18	LAPTM5
1	30732469	30757820	- 3274	
protein_coding	lysosomal protein transmembrane 5 [Source:HGNC Symbol;Acc:HGNC:29612]			
	-	3302 4233	6219 1463	1296
1524	55.15604365	57.00376636	87.9922327	
21.60562667	17.24983416	21.72962981		
ENSG00000175063	1796.761482	1997.579709	3129.93273	
539.4585052	618.683137	677.0387084	2308.091307	
611.7267836	1.915881709	6.85E-21	2.01E-18	UBE2C
20	45812576	45816957	+ 1286	
protein_coding	ubiquitin conjugating enzyme E2 C [Source:HGNC Symbol;Acc:HGNC:15937]			
	-	1553 2155	3201 537	677
690	66.04275776	73.88227568	115.3047401	
20.189917	22.94068057	25.04691016		
ENSG00000111206	1595.450151	1789.942653	3021.397106	
577.6324777	489.8288943	497.4762684	2135.596637	
521.6458801	2.033918969	1.07E-20	3.08E-18	FOXM1
12	2857681 2877155	- 4899	protein_coding	
forkhead box M1	[Source:HGNC Symbol;Acc:HGNC:3818] Fork			1379
1931	3090 575	536 507	15.39400203	
17.37836011	29.21820257	5.674944541	4.767777151	
4.83110588				
ENSG00000114346	3137.680065	2788.269032	3436.961433	
1071.884963	1301.336465	1245.162494	3120.970176	
1206.127974	1.371349167	1.42E-20	4.02E-18	ECT2
3	172750682	172821474	+ 5499	
protein_coding	epithelial cell transforming 2 [Source:HGNC Symbol;Acc:HGNC:3155]			
	-	2712 3008	3515 1067	1424
1269	26.97122539	24.11726582	29.61038577	
9.381708099	11.28456617	10.77268444		
ENSG00000168078	1103.741439	1137.36905	1415.852107	
250.1399773	384.7350084	208.9989056	1218.987532	

281.2912971	2.114480034	1.45E-20	4.04E-18	PBK
8	27809620	27838095	- 2165	
protein_coding	PDZ binding kinase [Source:HGNC	Symbol;Acc:HGNC:18282]		
-	954 1227	1448 249	421 213	
24.09823231	24.98737416	30.98226163	5.560868982	
8.47388943	4.592696413			
ENSG00000197594	3635.173585	2245.075663	4343.380565	
735.3512585	771.2977365	1048.91939	3407.876604	
851.8561285	2.000118872	1.55E-20	4.23E-18	ENPP1
6	131808016	131895155	+ 9959	
protein_coding	ectonucleotide pyrophosphatase/phosphodiesterase 1			
[Source:HGNC	Symbol;Acc:HGNC:3356]	-	3142 2422	4442
732	844 1069	17.25381595	10.72240888	
20.66166319	3.553829313	3.693051058	5.010810845	
ENSG00000076382	1847.667796	1792.723506	2793.570075	
550.5088657	609.5445382	702.5503119	2144.653792	
620.8679053	1.788485321	2.82E-20	7.57E-18	SPAG5
17	28577565	28599279	- 5472	
protein_coding	sperm associated antigen 5 [Source:HGNC			
Symbol;Acc:HGNC:13452]	-	1597 1934	2857 548	667
716	15.96075901	15.58275846	24.18614251	
4.84212154	5.311758762	6.108196073		
ENSG00000024526	1925.184228	1359.837324	2212.757816	
211.9660048	448.7051998	440.5657682	1832.593123	
367.078991	2.318897634	3.40E-20	8.95E-18	DEPDC1
1	68474152	68497221	- 5904	
protein_coding	DEP domain containing 1 [Source:HGNC			
Symbol;Acc:HGNC:22949]	-	1664 1467	2263 211	491
449	15.41351488	10.95513473	17.75581703	
1.727974475	3.62404633	3.550144481		
ENSG00000092969	275.3568788	394.881186	433.1646984	
38.17397244	24.67421669	59.85414669	367.8009211	
40.9007786	3.172627192	7.26E-20	1.88E-17	TGFB2
1	218346235	218444619	+ 5151	
protein_coding	transforming growth factor beta 2 [Source:HGNC			
Symbol;Acc:HGNC:11768]	-	238 426	443 38	27
61	2.526853829	3.646296723	3.983956907	
0.356691913	0.228418256	0.552820731		
ENSG00000198763	38766.31487	49660.48042	42059.02107	
106074.419	93575.59601	93991.61583	43495.27212	
97880.54362	-1.170137182	1.50E-19	3.79E-17	MT-ND2
MT	4470 5511	+ 1042	protein_coding	
mitochondrially	encoded NADH:ubiquinone oxidoreductase core subunit 2			
[Source:HGNC	Symbol;Acc:HGNC:7456]	-	33507 53574	43014
105591	102396 95791	1758.581659	2266.837103	
1912.249551	4899.597455	4282.268265	4291.439793	
ENSG00000075218	857.3086017	1085.459786	1860.750386	
216.988896	284.2104219	269.8342679	1267.839591	
257.0111952	2.302474542	1.51E-19	3.79E-17	GTSE1
22	46296741	46330810	+ 4242	

protein_coding	G2 and S-phase expressed 1 [Source:HGNC						
Symbol;Acc:HGNC:13698]	-	741	1171	1903	216	311	
	275	9.553054525	12.17082979	20.78119798			
2.461978769	3.194834184	3.026272738					
ENSG00000165304	1914.771573	1735.252536	2291.959487				
703.2047554	776.7808958	640.7337342	1980.661199				
706.9064618	1.486154228	1.75E-19	4.31E-17			MELK	
	9	36572862	36677683	+	3087		
protein_coding	maternal embryonic leucine zipper kinase [Source:HGNC						
Symbol;Acc:HGNC:16870]	-	1655	1872	2344	700	850	
	653	29.3194677	26.73641495	35.17413561			
10.96383843	11.99888508	9.874669925					
ENSG00000115884	1066.718665	1085.459786	1627.056564				
285.3002151	328.075696	394.4486388	1259.745005				
335.9415166	1.907012386	3.85E-19	9.34E-17			SDC1	
	2	20200797	20225433	-	3595		
protein_coding	syndecan 1 [Source:HGNC Symbol;Acc:HGNC:10658]						
	922	1171	1664	284	359	402	14.02577085
	14.3612406	21.44158485	3.819624425	4.351651939			
	5.220032347						
ENSG00000112972	1693.791893	1508.149506	1884.217548				
621.8339194	683.5671883	592.6541738	1695.386316				
632.6850938	1.421732786	5.67E-19	1.35E-16			HMGCS1	
	5	43289395	43313512	-	4702		
protein_coding	3-hydroxy-3-methylglutaryl-CoA synthase 1 [Source:HGNC						
Symbol;Acc:HGNC:5007]	-	1464	1627	1927	619	748	
	604	17.02758922	15.25593698	18.98460413			
6.365158766	6.932303543	5.99653468					
ENSG0000010292	4131.510144	4339.05829	6325.377954				
1775.089718	1833.202914	1523.827702	4931.982129				
1710.706778	1.527628869	7.02E-19	1.65E-16			NCAPD2	
	12	6493356	6531955	+	6487	protein_coding	non-
SMC condensin I complex subunit D2 [Source:HGNC							
Symbol;Acc:HGNC:24305]	-	3571	4681	6469	1767	2006	
	1553	30.10514096	31.81476365	46.19507845			
13.17024543	13.47552296	11.17567063					
ENSG00000114251	4903.203582	2763.241351	4437.249213				
1387.322525	1195.32872	1029.29508	4034.564715				
1203.982108	1.7444207	8.04E-19	1.86E-16			WNT5A	
	3	55465715	55490539	-	7397		
protein_coding	Wnt family member 5A [Source:HGNC						
Symbol;Acc:HGNC:12784]	-	4238	2981	4538	1381	1308	
	1049	31.33286059	17.76807241	28.41916599			
9.026913406	7.705675622	6.620120664					
ENSG00000142945	1914.771573	2246.002614	3531.807879				
632.8842799	609.5445382	826.1834674	2564.194022				
689.5374285	1.895152339	8.36E-19	1.90E-16			KIF2C	
	1	44739818	44767767	+	3646		
protein_coding	kinesin family member 2C [Source:HGNC						
Symbol;Acc:HGNC:6393]	-	1655	2423	3612	630	667	

842	24.82424487	29.3002083	45.89163525	
8.354589227	7.972008762	10.78056352		
ENSG00000184661	881.6047969	748.9765218	1317.094467	
158.7233591	263.1916447	209.9801212	982.5585951	
210.6317083	2.220796626	8.46E-19	1.90E-16	CDCA2
8	25458997	25507920	+ 3908	
protein_coding	cell division cycle associated 2	[Source:HGNC		
Symbol;Acc:HGNC:14623]	-	762 808	1347 158	288
214	10.66338597	9.115715526	15.96671217	
1.954806383	3.211415731	2.556261353		
ENSG00000144554	1317.779349	1036.331375	1456.91964	
418.9091186	435.9111615	385.6176992	1270.343455	
413.4793264	1.618914586	9.78E-19	2.17E-16	FANCD2
3	10026414	10101930	+ 8378	
protein_coding	FA complementation group D2	[Source:HGNC		
Symbol;Acc:HGNC:3585]	-	1139 1118	1490 417	477
393	7.434950489	5.883495227	8.238504214	
2.406561228	2.481056308	2.189768631		
ENSG00000178999	1023.911083	1588.794255	2199.068638	
363.6573164	379.2518491	431.7348286	1603.924659	
391.547998	2.034859302	3.16E-18	6.90E-16	AURKB
17	8204733 8210600	- 2241	protein_coding	aurora
kinase B	[Source:HGNC Symbol;Acc:HGNC:11390]		- 885	1714
2249	362 415	440 21.5971342	33.72119208	
46.48898397	7.810303861	8.069838399	9.165514647	
ENSG00000101255	2930.583925	3885.779182	2618.544158	
8478.640194	8116.903431	7363.041258	3144.969088	
7986.194961	-1.344251409	6.55E-18	1.41E-15	TRIB3
20	362835 397559	+ 3434	protein_coding	
tribbles	pseudokinase 3 [Source:HGNC Symbol;Acc:HGNC:16228]		-	
2533	4192 2678	8440 8882	7504 40.33941648	
53.82139389	36.12540608	118.8347269	112.7117196	
102.0090188				
ENSG00000121621	743.9263575	623.8381178	892.729954	
185.8469711	228.4649694	212.9237677	753.4981431	
209.0785694	1.848847348	9.40E-18	2.00E-15	KIF18A
11	28020620	28108308	- 4668	
protein_coding	kinesin family member 18A	[Source:HGNC		
Symbol;Acc:HGNC:29441]	-	643 673	913 185	250
217	7.533119179	6.356501808	9.060295993	
1.916205567	2.333822159	2.170075892		
ENSG00000163808	1064.404742	950.1249194	1543.943699	
349.5932213	248.5698867	348.3315094	1186.157787	
315.4982058	1.911382501	1.06E-17	2.22E-15	KIF15
3	44761717	44873376	+ 5285	
protein_coding	kinesin family member 15	[Source:HGNC		
Symbol;Acc:HGNC:17273]	-	920 1025	1579 348	272
355	9.520013154	8.550919772	13.84011167	
3.183724421	2.242758494	3.135663114		
ENSG00000182481	7996.919103	7446.198514	9730.072039	

3890.731454	3789.776912	3469.578077	8391.063219	
3716.695481	1.174842108	1.29E-17	2.66E-15	KPNA2
17	68035519	68046842	+ 3140	
protein_coding	karyopherin subunit alpha 2 [Source:HGNC			
Symbol;Acc:HGNC:6395]	-	6912 8033	9951 3873	4147
3536	120.3840068	112.7929815	146.804556	
59.63744999	57.55233985	52.56887029		
ENSG00000157168	883.9187202	1264.361356	1424.652292	
201.9202226	288.7797213	373.8431129	1190.977456	
288.1810189	2.047312956	1.97E-17	4.02E-15	NRG1
8	31639386	32767959	+ 11328	
protein_coding	neuregulin 1 [Source:HGNC Symbol;Acc:HGNC:7997]			
764	1364 1457	201 316	381 3.688372973	
5.308784397	5.958113433	0.85791455	1.215604894	
1.570065502				
ENSG00000228716	2009.642431	1856.683135	2437.651451	
822.7495638	880.9609218	806.559157	2101.325672	
836.7565476	1.328318397	2.57E-17	5.16E-15	DHFR
5	80626228	80654983	- 4409	
protein_coding	dihydrofolate reductase [Source:HGNC			
Symbol;Acc:HGNC:2861]	-	1737 2003	2493 819	964
822	21.5453936	20.02971678	26.19296336	
8.98142028	9.527863636	8.703175768		
ENSG00000210082	103074.8727	107162.9675	85848.74534	
232863.241	199427.0717	198837.4377	98695.52849	
210375.9168	-1.09191336	3.93E-17	7.79E-15	MT-
RNR2 MT	1671 3229	+ 1559	Mt_rRNA	
mitochondrially	encoded 16S RNA [Source:HGNC Symbol;Acc:HGNC:7471]			
-	89091 115608	87798 231802	218225 202644	
3125.233214	3269.45776	2608.801068	7189.062844	
6099.81951	6067.833706			
ENSG00000115163	315.8505375	367.9996029	605.2572196	
35.16023777	78.59194946	61.81657773	429.7024533	
58.52292165	2.873936416	4.99E-17	9.78E-15	CENPA
2	26764289	26801067	+ 1983	
protein_coding	centromere protein A [Source:HGNC			
Symbol;Acc:HGNC:1851]	-	273 397	619 35	86
63	7.528954032	8.826768786	14.46006984	
0.853388029	1.88988046	1.483077585		
ENSG00000163430	6440.805649	5737.827562	6673.47419	
2477.289896	3204.90659	2777.821136	6284.0358	
2820.005874	1.155798114	1.03E-16	2.00E-14	FSTL1
3	120392293	120451253	- 8727	
protein_coding	folliculin like 1 [Source:HGNC Symbol;Acc:HGNC:3972]			
-	5567 6190	6825 2466	3507 2831	
34.88598246	31.27228613	36.22764768	13.66247288	
17.51174351	15.14331406			
ENSG00000171848	3370.229361	2606.586608	3233.579362	
785.5801696	1312.302784	1047.938175	3070.131777	
1048.607043	1.549255851	1.06E-16	2.02E-14	RRM2

2	10120698	10131419	+	5323	
protein_coding	ribonucleotide reductase regulatory subunit M2				
[Source:HGNC Symbol;Acc:HGNC:10452]	-		2913	2812	3307
782	1436	1068	29.92807139	23.2912506	
28.77929723	7.103158463		11.75591863	9.366143823	
ENSG00000120437	1272.657843		1322.759278	1469.631019	
539.4585052	442.3081807		558.3116306	1355.016047	
513.3594388	1.400907074		1.09E-16	2.06E-14	ACAT2
6	159760328		159779055	+	4299
protein_coding	acetyl-CoA acetyltransferase 2				
[Source:HGNC Symbol;Acc:HGNC:94]	-	1100	1427	1503	537
569	13.99329381		14.63492449	16.19548623	484
6.03959834	4.906101335		6.178611055		
ENSG00000189403	10129.19947		10526.45716	12961.6958	
5543.262629	4943.981937		5105.264348	11205.78414	
5197.502971	1.108434067		1.49E-16	2.77E-14	HMGB1
13	30456704		30617597	-	7723
protein_coding	high mobility group box 1				
[Source:HGNC Symbol;Acc:HGNC:4983]	HMG	8755	11356	13256	5518
5203	61.99616541		64.82959477	79.51131139	5410
34.54592913	30.52599495		31.44950592		
ENSG00000117399	2684.151088		3401.910687	5128.552693	
1121.109296	1069.216057		1326.603382	3738.204822	
1172.309578	1.673259778		1.63E-16	3.01E-14	CDC20
1	43358955		43363203	+	2038
protein_coding	cell division cycle 20				
[Source:HGNC Symbol;Acc:HGNC:1723]	-	2320	3670	5245	1116
1352	62.2556136		79.39549168	119.2185317	1170
26.47654008	25.01729097		30.96838431		
ENSG00000134222	753.1820509		840.7446847	1314.161071	
210.9614266	293.3490207		168.7690693	969.3626023	
224.3598389	2.110613067		2.02E-16	3.68E-14	PSRC1
1	109279556		109283186	-	2855
protein_coding	proline and serine rich coiled-coil 1				
[Source:HGNC Symbol;Acc:HGNC:24472]	-	651	907	1344	210
172	12.47009002		14.0066776	21.80698435	321
3.556431094	4.899564932		2.812343537		
ENSG00000181019	1055.149048		995.5455253	1277.98253	
289.3185279	419.4616837		370.8994664	1109.559034	
359.893226	1.623677115		2.14E-16	3.84E-14	NQ01
16	69706996		69726951	-	3254
protein_coding	NAD(P)H quinone dehydrogenase 1				
[Source:HGNC Symbol;Acc:HGNC:2874]	-	912	1074	1307	288
378	15.32752392		14.55193314	18.60632038	459
4.279333718	6.146865844		5.422758791		
ENSG00000163507	2046.665204		1480.340972	2166.80129	
702.2001772	632.3910352		741.7989327	1897.935822	
692.1300484	1.455214082		2.44E-16	4.33E-14	CIP2A
3	108549869		108589644	-	4579
protein_coding	cell proliferation regulating inhibitor of protein				

phosphatase 2A [Source:HGNC Symbol;Acc:HGNC:29302]	-	1769
1597 2216 699 692 756 21.12768446		
15.37688019 22.41824279 7.380873273 6.585580286		
7.707209917		
ENSG00000182628 1406.865398 1219.867701 1380.651364		
526.3989883 575.7317228 501.4011304 1335.794821		
534.5106139 1.320873178 2.71E-16 4.77E-14 SKA2		
17 59109951 59155269 - 3148		
protein_coding spindle and kinetochore associated complex subunit 2 [Source:HGNC Symbol;Acc:HGNC:28006]	-	1412
524 630 511 21.1248466 18.43126416		
20.77793718 8.048181832 8.72096259 7.577609351		
ENSG00000113721 3783.26468 2847.593905 6232.487105		
1364.217226 1164.257484 1219.650891 4287.781896		
1249.3752 1.779112033 4.14E-16 7.19E-14 PDGFRB		
5 150113837 150155872 - 7137		
protein_coding platelet derived growth factor receptor beta [Source:HGNC Symbol;Acc:HGNC:8804]	-	6374
1358 1274 1243 25.05686705 18.97752065		
41.37126669 9.199946243 7.778795047 8.130204465		
ENSG00000119403 1404.551474 1499.806946 2227.424792		
586.6736817 581.214882 579.898372 1710.594404		
582.5956452 1.554219869 4.60E-16 7.90E-14 PHF19		
9 120855652 120894896 - 6733		
protein_coding PHD finger protein 19 [Source:HGNC Symbol;Acc:HGNC:24566]	-	636
591 9.860632768 10.59507074 15.67283499		
4.193778116 4.116300757 4.097556043		
ENSG00000237649 1559.584339 1629.580106 2505.119542		
565.577539 718.2938636 502.382346 1898.094662		
595.4179162 1.672397118 9.07E-16 1.54E-13 KIFC1		
6 33391536 33409924 + 3345		
protein_coding kinesin family member C1 [Source:HGNC Symbol;Acc:HGNC:6389]	-	786
512 22.03882736 23.17163648 35.48015097		
8.137921369 10.23964786 7.145290245		
ENSG00000134690 1362.900854 1436.774268 2295.870681		
466.124295 530.0387289 593.6353893 1698.515268		
529.9328044 1.680563934 1.06E-15 1.78E-13 CDCA8		
1 37692418 37709719 + 2469		
protein_coding cell division cycle associated 8 [Source:HGNC Symbol;Acc:HGNC:14629]	-	580
605 26.09269353 27.67862847 44.05340263		
9.086530886 10.23683024 11.43879615		
ENSG00000112029 998.4579261 894.5078509 1080.46725		
312.423827 379.2518491 386.5989147 991.1443423		
359.4248636 1.462913444 1.55E-15 2.57E-13 FBX05		
6 152970519 152983579 - 3833		
protein_coding F-box protein 5 [Source:HGNC Symbol;Acc:HGNC:13584]	-	
- 863 965 1105 311 415 394		

12.31307966	11.09998654	13.35444718	3.923040451	
4.718107971	4.798477231			
ENSG00000171320	1175.473063	818.4978574	1159.668922	
216.988896	370.1132504	311.0453197	1051.21328	
299.3824887	1.810664075	2.49E-15	4.10E-13	ESC02
8	27771949	27812640	+ 7973	
protein_coding	establishment of sister chromatid cohesion N-acetyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:27230] -			1016
883	1186 216	405 317	6.968938896	
4.88284454	6.89073234	1.309885105	2.213562847	
1.85602377				
ENSG00000051341	931.354149	888.9461441	927.9306969	
360.6435817	266.8470842	346.3690784	916.0769967	
324.6199148	1.497432324	2.57E-15	4.17E-13	POLQ
3	121431427	121546641	- 9400	
protein_coding	DNA polymerase theta [Source:HGNC Symbol;Acc:HGNC:9186] -			292
353	4.683416045	4.498054483	4.67671403	
1.846578656	1.353672467	1.753044286		
ENSG00000265415	207.09614	155.7277917	265.9611692	
17.07782977	15.53561792	31.39889662	209.5950336	
21.3374481	3.29806785	2.63E-15	4.23E-13	
AC099850.3	17 59202677	59203829	-	321
antisense	"novel transcript, antisense to PRR11" -			
179	168 272	17 17	32	30.49598823
23.07481391	39.25241008	2.560619836	2.307822944	
4.653620691				
ENSG00000117525	1138.450289	652.5736032	835.0398474	
252.1491337	241.2590076	265.9094058	875.3545798	
253.105849	1.789249723	2.75E-15	4.38E-13	F3
1	94529225	94541800	- 2875	
protein_coding	"coagulation factor III, tissue factor [Source:HGNC Symbol;Acc:HGNC:3541]" -			264
271	18.71767758	10.79614647	13.76012812	
4.22121127	4.001517086	4.400251277		
ENSG00000177000	345.931541	359.6570426	294.3173233	
1178.370254	899.2381194	860.5260106	333.301969	
979.3781281	-1.554981226	3.47E-15	5.47E-13	MTHFR
1	11785723	11806920	- 11978	
protein_coding	methylenetetrahydrofolate reductase [Source:HGNC Symbol;Acc:HGNC:7436] -			984
877	1.365153831	1.42817483	1.164084865	
4.734944794	3.57988757	3.417915491		
ENSG00000035499	554.1846427	537.6316617	607.2128164	
138.6317946	137.9928415	199.1867505	566.3430403	
158.6037955	1.836706714	3.89E-15	6.07E-13	
DEPDC1B 5	60596912	60700190	- 3806	
protein_coding	DEP domain containing 1B [Source:HGNC Symbol;Acc:HGNC:24902] -			151
203	6.882741238	6.718822495	7.55831995	

1.753119494	1.728887607	2.489850607				
ENSG00000154734	3185.115493	3651.260544	2403.428507			
7286.205844	6697.679042	8454.152916	3079.934848			
7479.345934	-1.279963574	4.18E-15	6.46E-13			
ADAMTS1 21	26835747	26845409	-	7063		
protein_coding	ADAM metalloproteinase with thrombospondin type 1 motif					
1 [Source:HGNC	Symbol;Acc:HGNC:217]	-	2753	3939	2458	
7253	7329	8616	21.3162948	24.58842621		
16.12111693	49.65119296	45.21828775	56.9459077			
ENSG00000188641	2123.024675	1847.413624	2131.600547			
941.289794	884.6163613	958.6475625	2034.012949			
928.1845726	1.131763179	4.42E-15	6.75E-13			DPYD
1	97077743	97995000	-	7131		
protein_coding	dihydropyrimidine dehydrogenase [Source:HGNC					
Symbol;Acc:HGNC:3012]	-	1835	1993	2180	937	968
977	14.07279447	12.32227283	14.16147575			
6.353168456	5.915391849	6.395730614				
ENSG00000164611	1360.586931	1218.94075	1717.991817			
515.3486279	506.2783721	592.6541738	1432.506499			
538.0937246	1.412744402	4.51E-15	6.83E-13			PTTG1
5	160421822	160428744	+	2013		
protein_coding	pituitary tumor-transforming 1 [Source:HGNC					
Symbol;Acc:HGNC:9690]	-	1176	1315	1757	513	554
604	31.94907285	28.80155499	40.43248577			
12.32181848	11.99291036	14.00680877				
ENSG00000130766	373.6986213	559.8784891	412.6309316			
1287.869281	1249.246452	1202.970227	448.736014			
1246.69532	-1.472431389	5.12E-15	7.67E-13			SESN2
1	28259527	28282491	+	3453		
protein_coding	sestrin 2 [Source:HGNC Symbol;Acc:HGNC:20746]					-
323	604	422	1282	1367	1226	5.115648036
7.712129584	5.661328145	17.95116601	17.25164584			
16.5744806						
ENSG00000116962	655.9972701	746.1956684	1541.010304			
236.0758822	128.8542427	210.9613367	981.0677475			
191.9638205	2.354887864	8.29E-15	1.23E-12			NID1
1	235975830	236065162	-	5864		
protein_coding	nidogen 1 [Source:HGNC Symbol;Acc:HGNC:7821]					-
567	805	1576	235	141	215	5.287907019
6.052515032	12.44986687	1.937649038	1.047812919			
1.711553717						
ENSG00000185697	1138.450289	945.4901637	1371.851178			
456.0785128	396.6151868	387.5801302	1151.930543			
413.4246099	1.478463712	9.55E-15	1.40E-12			MYBL1
8	66562175	66614247	-	7239		
protein_coding	MYB proto-oncogene like 1 [Source:HGNC					
Symbol;Acc:HGNC:7547]	MYB	984	1020	1403	454	434
395	7.433806195	6.212344814	8.978040294			
3.032344175	2.612580919	2.547208849				
ENSG00000167900	2543.001763	3001.467794	3875.992922			

974.4408754	1320.527523	1287.354762	3140.15416	
1194.10772	1.394917394	1.36E-14	1.98E-12	TK1
17	78174075	78187233	- 1861	
protein_coding	thymidine kinase 1 [Source:HGNC Symbol;Acc:HGNC:11830]			
-	2198 3238	3964 970	1445 1312	
64.59159778	76.71219848	98.67104517	25.20151084	
33.83608223	32.91042553			
ENSG00000171604	1420.748938	1209.671239	1658.346114	
581.6507906	572.9901431	441.5469838	1429.588763	
532.0626392	1.425729851	1.39E-14	2.01E-12	CXXC5
5	139647299	139683882	+ 3852	
protein_coding	CXXC finger protein 5 [Source:HGNC			
Symbol;Acc:HGNC:26943]	-	1228 1305	1696 579	627
450	17.43439178	14.9368215	20.39586014	
7.267641593	7.093161695	5.453461747		
ENSG00000142731	1011.184505	685.9438442	920.1083096	
318.4512964	264.1055046	283.5712851	872.4122195	
288.709362	1.595091524	1.64E-14	2.34E-12	PLK4
4	127880861	127899195	+ 4482	
protein_coding	polo like kinase 4 [Source:HGNC Symbol;Acc:HGNC:11397]			
-	874 740	941 317	289 289	
10.66434762	7.279370519	9.72568562	3.419704867	
2.809859394	3.010038333			
ENSG00000120802	4906.674467	4225.970251	5442.425984	
2157.834021	2388.82972	2409.865316	4858.356901	
2318.843019	1.066949112	1.73E-14	2.45E-12	TMPO
12	98515512	98550379	+ 8593	
protein_coding	thymopoietin [Source:HGNC Symbol;Acc:HGNC:11875]			
-	4241 4559	5566 2148	2614 2456	
26.99095017	23.39153588	30.00549848	12.08622519	
13.25620981	13.34226575			
ENSG00000136108	4082.917754	3158.122537	4467.560963	
1591.251904	1859.704851	1640.592349	3902.867085	
1697.183034	1.201140709	1.91E-14	2.69E-12	CKAP2
13	52455429	52476628	+ 4547	
protein_coding	cytoskeleton associated protein 2 [Source:HGNC			
Symbol;Acc:HGNC:1990]	-	3529 3407	4569 1584	2035
1672	42.44449951	33.03551924	46.54774641	
16.84346504	19.50284895	17.16553544		
ENSG00000170017	4349.018939	3147.926074	3964.972578	
1461.661313	1473.142122	1880.008935	3820.639197	
1604.937457	1.251127703	1.95E-14	2.71E-12	ALCAM
3	105366909	105576900	+ 7179	
protein_coding	activated leukocyte cell adhesion molecule			
[Source:HGNC Symbol;Acc:HGNC:400]	-		3759 3396	4055
1455	1612 1916	28.63538886	20.85632022	
26.16551945	9.799417398	9.784974132	12.45883939	
ENSG00000140525	2569.611882	2235.806152	2365.294369	
1231.6129	1028.092362	1006.727123	2390.237467	
1088.810795	1.134372596	2.02E-14	2.78E-12	FANCI

15	89243949	89317261	+	7766	
protein_coding	FA complementation group I [Source:HGNC				
Symbol;Acc:HGNC:25568]	-	2221	2412	2419	1226 1125
1026	15.64032903	13.69348137		14.4291563	
7.632983094	6.312679407	6.167313289			
ENSG00000161888	529.8884475	469.0372773		625.7909863	
89.40746176	175.4610965	119.7082934		541.572237	
128.1922839	2.076675214	2.86E-14		3.90E-12	SPC24
19	11131520	11155808	-	2839	
protein_coding	"SPC24, NDC80 kinetochore complex component				
[Source:HGNC	Symbol;Acc:HGNC:26913]"	-	458	506	640
89	192	122	8.822563609	7.858127703	
10.44280185	1.515743905	2.947097024	2.00604409		
ENSG00000152234	8449.291118	7119.911713	8072.703724		
4044.431922	4290.572124	3943.505173	7880.635518		
4092.836406	0.945075576	2.90E-14	3.92E-12		
ATP5F1A	18	46080248	46104334	-	10908
protein_coding	ATP synthase F1 subunit alpha [Source:HGNC				
Symbol;Acc:HGNC:823]	-	7303	7681	8256	4026 4695
4019	36.61431252	31.04606724	35.06121895		
17.84554673	18.75638182	17.19962241			
ENSG00000143401	3917.472234	3397.275931	4388.359292		
1854.451398	1938.2968	1617.043176	3901.035819		
1803.263791	1.11311265	3.00E-14	4.02E-12		ANP32E
1	150218417	150236156	-	3605	
protein_coding	acidic nuclear phosphoprotein 32 family member E				
[Source:HGNC	Symbol;Acc:HGNC:16673]	-	3386	3665	4488
1846	2121	1648	51.36607688	44.82318035	
57.6700111	24.75868897	25.63858172	21.34017488		
ENSG00000095752	654.8403085	1256.018796	1041.355313		
233.0621475	289.6935811	311.0453197	984.0714725		
277.9336828	1.824645404	3.52E-14	4.68E-12		IL11
19	55364389	55370463	-	2671	
protein_coding	interleukin 11 [Source:HGNC				
Symbol;Acc:HGNC:5966]	-	566	1355	1065	232 317 317
11.58876766	22.3665688	18.47047974	4.199671426		
5.171826796	5.540276121				
ENSG00000136824	2554.57138	2047.63507	2581.387819		
1166.315316	958.6390114	1042.050882	2394.531423		
1055.668403	1.18158336	3.69E-14	4.87E-12		SMC2
9	104094260	104141417	+	6468	
protein_coding	structural maintenance of chromosomes 2 [Source:HGNC				
Symbol;Acc:HGNC:14011]	-	2208	2209	2640	1161 1049
1062	18.6691167	15.05773545	18.9075985		
8.678874833	7.067471644	7.664794956			
ENSG00000198826	1721.558973	1516.492066	2323.249037		
687.1315039	784.0917748	620.1282083	1853.766692		
697.1171623	1.410786819	4.39E-14	5.73E-12		
ARHGAP11A	15	32615144	32639949	+	6428
protein_coding	Rho GTPase activating protein 11A [Source:HGNC				

Symbol;Acc:HGNC:15783]	-	1488	1636	2376	684	858
632	12.65965224	11.2212539		17.12273061		
5.144953454	5.816610963	4.589731141				
ENSG00000168268	9789.052738	8499.21501		12451.28503		
4812.934262	4307.935462	4871.735054		10246.51759		
4664.201593	1.135466314	5.60E-14		7.26E-12		NT5DC2
3	52524385	52535054		-	4719	
protein_coding	5'-nucleotidase domain containing 2 [Source:HGNC					
Symbol;Acc:HGNC:25717]	-	8461	9169	12734	4791	4714
4965	98.05425186	85.66549986		125.0021043		
49.08823421	43.53095536	49.11513152				
ENSG00000105894	695.3339671	447.717401		665.8807214		
139.6363729	187.3412749	92.23425883		602.9773632		
139.7373022	2.107472441	7.85E-14		1.01E-11		PTN
7	137227341	137343865		-	1713	
protein_coding	pleiotrophin [Source:HGNC					
Symbol;Acc:HGNC:9630]	-	601	483	681	139	205
94	12.43150548	18.41586848		3.923364461		5.215009403
2.561630741						
ENSG00000132205	186.2708298	275.3044888		293.3395248		
41.1877071	22.84649694	47.09834493		251.6382812		
37.04418299	2.768521659	8.58E-14		1.09E-11		
EMILIN2	18	2847030	2915993	+	6435	protein_coding
elastin microfibril interfacier 2 [Source:HGNC						Symbol;Acc:HGNC:19881]
-	161	297	300	41	25	48
1.368270733	2.034894304	2.159609152		0.308060859		
0.169297309	0.348207982					
ENSG00000135451	404.9365865	531.1430037		807.6614917		
131.5997471	99.61072664	160.9193452		581.2470273		
130.7099396	2.154449526	9.03E-14		1.14E-11		TROAP
12	49323236	49331731		+	3954	
protein_coding	trophinin associated protein [Source:HGNC					
Symbol;Acc:HGNC:12327]	-	350	573	826	131	109
164	4.840899785	6.389279914		9.677113575		
1.601901644	1.201291573	1.936213389				
ENSG00000129195	598.1491863	899.1426066		1401.18513		
270.2315417	223.89567	247.2663109		966.1589744		
247.1311742	1.967956095	1.09E-13		1.36E-11		PIMREG
17	6444415	6451469	+	2823		protein_coding
interacting mitotic regulator [Source:HGNC						PICALM
Symbol;Acc:HGNC:25483]	-	517	970	1433	269	245
252	10.01554018	15.14937842		23.51460934		4.607258907
3.781932767	4.16711704					
ENSG00000104341	4235.636695	4007.209782		4509.606295		
2221.122449	2316.634789	2166.523867		4250.817591		
2234.760368	0.927547308	1.11E-13		1.38E-11		
LAPTM4B	8	97775057	97853013	+	3197	
protein_coding	lysosomal protein transmembrane 4 beta [Source:HGNC					
Symbol;Acc:HGNC:13646]	-	3661	4323	4612	2211	2535
2208	62.62558639	59.61788394		66.82656191		

33.43854122	34.55364962	32.24055198				
ENSG00000182010	533.3593325	428.2514271	491.8326033			
139.6363729	116.0602044	163.8629918	484.481121			
139.8531897	1.792816888	1.21E-13	1.49E-11			RTKN2
10	62183035	62268707	-	9548		
protein_coding	rhotekin 2 [Source:HGNC Symbol;Acc:HGNC:19364]					-
461	462	503	139	127	167	2.6404821
	2.133356931	2.440383222	0.703888073	0.579628736		
	0.816488546					
ENSG00000162063	900.1161837	723.948841	1258.426562			
273.2452764	332.6449954	309.0828886	960.8305288			
304.9910535	1.655134509	1.51E-13	1.85E-11			CCNF
16	2429394	2458854	+	6309	protein_coding	cyclin
F [Source:HGNC Symbol;Acc:HGNC:1591]			-	778	781	1287
272	364	315	6.743941313	5.457886053		
9.449753399	2.084536928	2.514197869	2.330751982			
ENSG00000169607	807.5592496	634.9615315	1127.401574			
206.9431137	306.1430589	197.2243194	856.640785			
236.770164	1.854189988	1.97E-13	2.39E-11			CKAP2L
2	112736607	112764677	-	5219		
protein_coding	cytoskeleton associated protein 2 like [Source:HGNC Symbol;Acc:HGNC:26877]					-
201	7.314132751	5.786783475	1153	206		335
1.908451555	2.797152264	1.797855555	10.2339777			
ENSG00000168615	5340.535095	4316.811463	5725.009727			
2471.262426	2214.282483	2629.657592	5127.452095			
2438.400834	1.072294534	2.06E-13	2.48E-11			ADAM9
8	38996869	39105144	+	6913		
protein_coding	ADAM metalloproteinase domain 9 [Source:HGNC Symbol;Acc:HGNC:216]					-
2680	36.51690452	29.70117557	5855	2460		2423
17.20559781	15.27374216	18.0973203	39.23401902			
ENSG00000184445	1727.343782	1543.37365	1738.525584			
830.7861896	776.7808958	732.967993	1669.747672			
780.1783595	1.097639046	2.17E-13	2.60E-11			KNTC1
12	122527246	122626396	+	11325		
protein_coding	kinetochore associated 1 [Source:HGNC Symbol;Acc:HGNC:17255]					-
747	7.209685324	6.482014305	1778	827		850
3.530762582	3.27068947	3.079132849	7.272705501			
ENSG00000233922	727.728894	738.7800593	694.2368755			
1658.558645	1452.123345	1517.940409	720.2486096			
1542.874133	-1.09896188	2.30E-13	2.72E-11			
LINC01694	21	45593654	45603056	+		6810
lincRNA	long intergenic non-protein coding RNA 1694 [Source:HGNC Symbol;Acc:HGNC:52481]					-
1651	1589	1547	629	797		710
4.829628132	11.72198545	10.16799638	5.159946128			
ENSG00000105011	1775.936172	1694.466685	2063.154658			
765.4886052	689.0503476	924.3050193	1844.519172			

792.9479907	1.21821851	2.85E-13	3.35E-11	ASF1B
19	14119509	14136956	- 2304	
protein_coding	anti-silencing function 1B histone chaperone			
[Source:HGNC Symbol;Acc:HGNC:20996]	-	1535	1828	2110
762	754 942	36.4351547	34.98063385	
42.42310348	15.99092967	14.26091755	19.08597998	
ENSG00000167657	1398.766666	1594.355962	1439.319269	
2789.713723	3124.486921	2869.074179	1477.480632	
2927.758274	-0.986398185	2.92E-13	3.41E-11	DAPK3
19	3958453 3971123	- 3549	protein_coding	death
associated protein kinase 3	[Source:HGNC Symbol;Acc:HGNC:2676]	-		
1209	1720 1472	2777 3419	2924	18.63009263
21.36763249	19.21340186	37.83302757	41.98089558	
38.46071952				
ENSG00000198888	19795.61427	26047.32706	25163.64224	
50338.41013	43889.03447	45882.61891	23668.86119	
46703.3545	-0.980477935	3.37E-13	3.91E-11	MT-ND1
MT	3307 4262	+ 956	protein_coding	
mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 1	[Source:HGNC Symbol;Acc:HGNC:7455]	-	17110 28100	25735
50109	48026 46761	978.7839292	1295.932512	
1247.006554	2534.306048	2189.158074	2283.347092	
ENSG00000117519	4435.791065	3967.350883	4764.811682	
1767.053093	2379.691121	2067.4211	4389.317876	
2071.388438	1.083157327	3.45E-13	3.97E-11	CNN3
1	94896949	94927278	- 2838	
protein_coding	calponin 3 [Source:HGNC Symbol;Acc:HGNC:2157]	-		
3834	4280 4873	1759 2604	2107	73.88128326
66.49137835	79.54016289	29.96778642	39.98408725	
34.65757568				
ENSG00000197299	885.0756819	680.3821374	839.9288395	
264.2040724	285.1242818	328.707199	801.7955529	
292.6785177	1.45332128	3.56E-13	4.06E-11	BLM
15	90717327	90816165	+ 6674	
protein_coding	Bloom syndrome RecQ like helicase [Source:HGNC			
Symbol;Acc:HGNC:1058]	-	765 734	859 263	312
335	6.268591155	4.848906564	5.962239498	
1.905332444	2.037168675	2.343174544		
ENSG00000140945	2485.153679	3134.021807	3819.280614	
1092.981106	1283.973128	1475.748141	3146.152033	
1284.234125	1.292875736	4.11E-13	4.65E-11	CDH13
16	82626803	83800640	+ 11187	
protein_coding	cadherin 13 [Source:HGNC Symbol;Acc:HGNC:1753]	-		
2148	3381 3906	1088 1405	1504	10.5006299
13.32494701	16.17413474	4.702366489	5.472947522	
6.275960969				
ENSG00000154839	879.2908735	633.1076292	944.55327	
298.3597319	169.9779372	253.153604	818.9839243	
240.4970911	1.768613124	4.33E-13	4.87E-11	SKA1
18	50374995	50394173	+ 2950	

protein_coding	spindle and kinetochore associated complex subunit 1				
[Source:HGNC Symbol;Acc:HGNC:28109]	-	760	683	966	
	297	186	258	14.08919854	10.20781159
15.16902148	4.867832768	2.747574809	4.082664813		
ENSG00000162745	573.8529912	557.0976356	1082.422847		
220.0026306	111.490905	163.8629918	737.7911578		
165.1188425	2.161294373	4.60E-13	5.14E-11		
OLFML2B 1	161983192	162023854	-	3415	
protein_coding	olfactomedin like 2B [Source:HGNC				
Symbol;Acc:HGNC:24558]	-	496	601	1107	219
	167	7.94302046	7.759213858	15.01617665	122
3.100663403	1.556781709	2.282820684			
ENSG00000101057	2656.384007	3131.240954	4804.901417		
1278.828077	1222.744516	1473.78571	3530.842126		
1325.119434	1.414138033	5.37E-13	5.95E-11		MYBL2
	20	43667019	43716496	+	2777
protein_coding	MYB proto-oncogene like 2 [Source:HGNC				
Symbol;Acc:HGNC:7548]	MYB	2296	3378	4914	1273
	1502	45.2158518	53.63122581	81.97128216	1338
22.16428574	20.99610961	25.24876201			
ENSG00000164109	2325.492968	1800.139116	2459.163017		
874.9876314	1078.354655	849.7326399	2194.9317		
934.3583089	1.231631599	5.47E-13	6.02E-11		MAD2L1
	4	120055608	120067074	-	5748
protein_coding	mitotic arrest deficient 2 like 1 [Source:HGNC				
Symbol;Acc:HGNC:6763]	-	2010	1942	2515	871
	866	19.12379197	14.89588889	20.26859691	1180
7.3266022	8.945896012	7.033106088			
ENSG00000185950	836.4832915	1140.149903	906.4191318		
2675.191805	2037.907527	2105.688505	961.0174422		
2272.929279	-1.241058183	6.50E-13	7.09E-11		IRS2
	13	109752698	109786568	-	8138
protein_coding	insulin receptor substrate 2 [Source:HGNC				
Symbol;Acc:HGNC:6126]	-	723	1230	927	2663
	2146	4.858646749	6.66379125	5.276725525	2230
15.82175654	11.94113959	12.31000043			
ENSG00000118705	4353.646786	3880.217476	5108.996724		
2275.369673	1775.629742	2177.317238	4447.620329		
2076.105551	1.09929936	7.22E-13	7.82E-11		RPN2
	20	37178410	37241623	+	2819
protein_coding	ribophorin II [Source:HGNC Symbol;Acc:HGNC:10382]				
	-	3763	4186	5225	2265
	73.00184817	65.4693616	85.8605517	38.84850825	
30.03560073	36.74584698				
ENSG00000035862	12381.80385	7443.417661	12964.6292		
4408.089238	4833.404892	4074.988052	10929.95024		
4438.827394	1.299933346	7.27E-13	7.82E-11		TIMP2
	17	78852977	78925387	-	5633
protein_coding	TIMP metalloproteinase inhibitor 2 [Source:HGNC				
Symbol;Acc:HGNC:11821]	-	10702	8030	13259	4388
					5289

4153	103.9010432	62.85064689	109.0368949	
37.66414249	40.91592874	34.41661992		
ENSG00000161800	2360.201818	1986.456295	2770.102913	
1011.61027	1032.661661	1156.853097	2372.253675	
1067.041676	1.152583452	8.47E-13	9.01E-11	
RACGAP1 12	49976923	50033136	- 4487	
protein_coding	Rac GTPase activating protein 1 [Source:HGNC			
Symbol;Acc:HGNC:9804]	-	2040 2143	2833 1007	1130
1179	24.86387482	21.05717272	29.2477836	
10.85112128	10.9744047	12.26602291		
ENSG00000121152	1425.376784	1357.05647	1795.237892	
721.2871634	487.0873147	440.5657682	1525.890382	
549.6467488	1.47355933	8.49E-13	9.01E-11	NCAPH
2	96335787	96373845	+ 3278	
protein_coding	non-SMC condensin I complex subunit H [Source:HGNC			
Symbol;Acc:HGNC:1112]	-	1232 1464	1836 718	533
449	20.55400564	19.69092352	25.94574727	
10.59050602	7.085603685	6.394158944		
ENSG00000091986	1035.4807	1082.678933	1736.569987	
374.7076768	283.296562	500.4199149	1284.909873	
386.1413846	1.735203286	8.72E-13	9.19E-11	CCDC80
3	112596794	112649530	- 13071	
protein_coding	coiled-coil domain containing 80 [Source:HGNC			
Symbol;Acc:HGNC:30649]	-	895 1168	1776 373	310
510	3.744630182	3.939743849	6.294142956	
1.37975264	1.03350237	1.821408661		
ENSG00000138587	358.6581195	351.3144824	431.2091015	
108.494448	112.4047649	108.9149227	380.3939011	
109.9380452	1.790825051	9.42E-13	9.85E-11	MNS1
15	56421544	56465137	- 2504	
protein_coding	meiosis specific nuclear structural 1 [Source:HGNC			
Symbol;Acc:HGNC:29636]	-	310 379	441 108	123
111	6.770520884	6.673272254	8.158432426	
2.085406138	2.140569754	2.06935352		
ENSG00000129116	2943.310503	2769.730009	3911.193665	
1536.000101	1444.812466	1414.912779	3208.078059	
1465.241782	1.130672739	9.47E-13	9.85E-11	PALLD
4	168497066	168928457	+ 10114	
protein_coding	"palladin, cytoskeletal associated protein			
[Source:HGNC Symbol;Acc:HGNC:17068]"	-		2544 2988	4000
1529	1581 1442	13.75589558	13.02541598	
18.32059178	7.309467722	6.811888308	6.655617376	
ENSG00000126890	242.9619519	199.2944953	234.6716199	
44.20144177	49.34843338	38.26740526	225.642689	
43.93909347	2.358838433	1.03E-12	1.06E-10	CTAG2
X	154651972	154653579	- 993	
protein_coding	cancer/testis antigen 2 [Source:HGNC			
Symbol;Acc:HGNC:2492]	-	210 215	240 44	54
39	11.56550922	9.546038232	11.1960402	
2.142420151	2.369753149	1.833417593		

ENSG00000204054	431.546705		424.5436225		494.7659986	
1086.953636	986.0548077		1045.975744		450.285442	
1039.661396	-1.206875408		1.05E-12		1.08E-10	
LINC00963	9	129483451		129513686	+	13171
	processed_transcript		long intergenic		non-protein coding RNA	
963 [Source:HGNC Symbol;Acc:HGNC:48716]	-				373	458
	1082	1079	1066	1.548762394		1.533136016
1.779648459	3.97200446		3.569943088		3.77819606	
ENSG00000111665	470.883402		524.6543457		753.8825789	
180.82408	93.2137075		162.8817762		583.1401089	
145.6398546	2.003508781		1.67E-12		1.71E-10	CDCA3
	12	6844793	6852066	-	5653	protein_coding cell
division cycle associated 3 [Source:HGNC Symbol;Acc:HGNC:14624]	-					
	407	566	771	180	102	166
	4.41439716		6.317974204		1.539553325	
	1.370803291					0.786284626
ENSG00000168003	7819.903966		10119.5256		7741.230061	
18496.29422	15754.94429		16489.3268		8560.219877	
16913.52177	-0.982345487		2.27E-12		2.29E-10	SLC3A2
	11	62856102		62888875	+	5178
protein_coding solute carrier family 3 member 2 [Source:HGNC Symbol;Acc:HGNC:11026]	-		6759	10917	7917	18412
	16805	71.3863395		92.95552802		70.82736005
171.9254369	145.0887747		151.5034444			
ENSG00000167325	4786.350452		4032.237463		4984.816326	
1832.350677	2503.062204		2229.32166		4601.134747	
2188.244847	1.071956656		2.47E-12		2.49E-10	RRM1
	11	4094707	4138876	+	4177	protein_coding
ribonucleotide reductase catalytic subunit M1 [Source:HGNC Symbol;Acc:HGNC:10451]	-		4137	4350	5098	1824
	2272	54.1646272		45.91543886		56.53765764
21.11356527	28.57499445		25.39158946			
ENSG00000151503	3815.659607		3710.585417		4361.958734	
2240.209435	1872.498889		1979.111703		3962.734586	
2030.606676	0.964747222		2.55E-12		2.54E-10	NCAPD3
	11	134150119		134225454	-	9114
protein_coding non-SMC condensin II complex subunit D3 [Source:HGNC Symbol;Acc:HGNC:28952]	-		3298	4003	4461	2230
	2017	19.78956918		19.36468888		22.67387013
11.83033534	9.796964445		10.33101304			
ENSG00000092853	1682.222276		1547.081454		1764.926141	
798.6396865	834.3540681		827.1646829		1664.743291	
820.0528125	1.021338843		2.66E-12		2.64E-10	CLSPN
	1	35720218		35769967	-	5411
protein_coding claspin [Source:HGNC Symbol;Acc:HGNC:19715]	-					
	1454	1669	1805	795	913	843
	13.59918121		15.45262012		7.103801396	
	7.272706754					14.69540587
ENSG00000119630	1211.338874		999.2533298		1258.426562	
417.9045404	487.0873147		540.6497512		1156.339589	

481.8805354	1.262381649	3.12E-12	3.08E-10	PGF
14	74941834	74955784	- 5962	
protein_coding	placental growth factor [Source:HGNC			
Symbol;Acc:HGNC:8893]	-	1047 1078	1287 416	533
551	9.603939658	7.971879898	9.999747433	
3.373669815	3.89577472	4.314253529		
ENSG00000090530	474.354287	467.183375	585.7012513	
155.7096244	119.7156439	187.4121642	509.0796378	
154.2791442	1.723563918	3.33E-12	3.26E-10	P3H2
3	189956728	190122437	- 5605	
protein_coding	prolyl 3-hydroxylase 2 [Source:HGNC			
Symbol;Acc:HGNC:19317]	-	410 504	599 155	131
191	4.000395707	3.964504156	4.950552395	
1.337079708	1.018484154	1.590756792		
ENSG00000119326	1913.614612	1787.1618	1732.658793	
538.453927	933.0509348	649.5646739	1811.145068	
707.0231786	1.356306148	3.88E-12	3.78E-10	
CTNNAL1 9	108942569	109013529	- 3131	
protein_coding	catenin alpha like 1 [Source:HGNC			
Symbol;Acc:HGNC:2512]	-	1654 1928	1772 536	1021
662	28.88997396	27.1492552	26.21700674	
8.27719027	14.2102354	9.870086474		
ENSG00000109674	348.2454644	298.4782674	419.4755205	
81.37083598	90.47212786	109.8961382	355.3997508	
93.91303401	1.919871268	4.18E-12	4.04E-10	NEIL3
4	177309836	177362943	+ 2959	
protein_coding	nei like DNA glycosylase 3 [Source:HGNC			
Symbol;Acc:HGNC:24573]	-	301 322	429 81	99
112	5.563092013	4.797830097	6.716063332	
1.323552797	1.457970804	1.766928978		
ENSG00000162413	4552.644194	6126.22009	4145.865285	
12052.92951	10603.51616	9404.950754	4941.576523	
10687.13214	-1.112686095	4.43E-12	4.26E-10	KLHL21
1	6590724 6614607	- 6901	protein_coding	kelch
like family member 21 [Source:HGNC	Symbol;Acc:HGNC:29041]			-
3935	6609 4240	11998 11603	9585 31.18368408	
42.22383565	28.46140171	84.0616764	73.26842612	
64.83747979				
ENSG00000259781	1306.209732	1299.585499	1672.035292	
679.0948781	627.8217358	551.4431219	1425.943508	
619.4532453	1.203060707	4.72E-12	4.51E-10	
HMGB1P6 15	71164770	71165415	- 646	
processed_pseudogene	high mobility group box 1 pseudogene 6			
[Source:HGNC	Symbol;Acc:HGNC:4998]			-
676	687 562	95.57760345	95.68623214	1710
122.6213373	50.59590803	46.34285835	40.61157507	
ENSG00000136153	2458.543561	2316.450901	3510.296314	
1167.319894	867.2530237	1270.674098	2761.763592	
1101.749005	1.3261256	5.06E-12	4.80E-10	LM07
13	75620434	75859870	+ 14367	

	5299	106.7050837	85.64162902	124.4246006	
54.78592165		53.47240964	51.20388551		
ENSG00000136205		3984.576011	4217.627691	6354.711907	
2063.403668		2154.881591	2190.073039	4852.305203	
2136.119433		1.183780634	7.54E-12	6.86E-10	TNS3
	7	47275154	47582558	-	11797
protein_coding	tensin 3 [Source:HGNC Symbol;Acc:HGNC:21616]				-
	3444	4550	6499	2054	2358
	17.00488797		25.51980863	8.418410059	8.710253988
	8.832194953				
ENSG00000111247		726.5719323	759.1729844	761.7049662	
172.7874542		319.8509571	253.153604	749.149961	
248.5973384		1.590279225	8.60E-12	7.78E-10	
RAD51AP1	12	4538798	4560048 +	2558	protein_coding
	RAD51 associated protein 1 [Source:HGNC Symbol;Acc:HGNC:16956]				
	-	628	819	779	172
	13.42622177		14.11618429	14.1071529	3.251090981
5.962468559		4.708311649			
ENSG00000102038		4809.489686	4078.58502	4924.192824	
2192.994259		2204.230024	2663.01892	4604.089176	
2353.414401		0.968097882	9.09E-12	8.18E-10	
SMARCA1 X		129446501	129523500	-	4363
protein_coding	"SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 1 [Source:HGNC Symbol;Acc:HGNC:11097]"				-
	2714	52.10621466	44.46327228	53.46911111	
24.19188666		24.09077038	29.03826513		
ENSG00000183741		1405.708436	1981.821539	1625.100968	
3737.030986		3262.479762	3416.592439	1670.876981	
3472.034396		-1.0545042	9.65E-12	8.63E-10	CBX6
	22	38861450	38872314	-	8030
protein_coding	chromobox 6 [Source:HGNC Symbol;Acc:HGNC:1556]				-
	1215	2138	1662	3720	3570
	11.73886515		9.587777125	22.39899904	19.37364192
	20.24227205				
ENSG00000106333		1661.396966	1579.524744	3215.978991	
604.7560897		606.8029586	845.8077778	2152.300234	
685.788942		1.650270057	9.78E-12	8.69E-10	PCOLCE
	7	100602177	100608175	+	3532
protein_coding	procollagen C-endopeptidase enhancer [Source:HGNC Symbol;Acc:HGNC:8738]				-
	862	22.23455581	21.27075246	43.1365725	
8.240944946		8.192302538	11.39285596		
ENSG00000137831		2585.809345	1850.194477	2575.521028	
1139.191704		969.6053299	1070.506132	2337.17495	
1059.767722		1.140878355	9.93E-12	8.78E-10	UACA
	15	70654554	70763593	-	11031
protein_coding	uveal autoantigen with coiled-coil domains and ankyrin repeats [Source:HGNC Symbol;Acc:HGNC:15947]				-
	2634	1134	1061	1091	11.08044891
					7.977735079

	11.06122794	4.970492084	4.191399884	4.616957766	
ENSG00000138119	3651.371049	3833.869919	3902.393479		
1699.746352	1675.105155	2248.945971	3795.878149		
1874.599159	1.0179883	1.01E-11	8.85E-10		MYOF
10	93306429	93482317	-	8473	
protein_coding	myoferlin [Source:HGNC Symbol;Acc:HGNC:3656]				-
3156	4136	3991	1692	1833	2292
21.5217351	21.81960967	9.655268797	9.427224648		
	12.62767636				
ENSG00000087074	2043.194319	3959.008323	2560.854052		
6639.257469	6999.252801	7769.264483	2854.352231		
7135.924918	-1.321504681	1.13E-11	9.89E-10		
PPP1R15A	19	48872392	48876057	+	3093
protein_coding	protein phosphatase 1 regulatory subunit 15A				
[Source:HGNC Symbol;Acc:HGNC:14375]			-	1766	4271
6609	7659	7918	31.22521893	60.88125683	2619
39.22455581	103.3134938	107.9072804	119.5037719		
ENSG00000166949	1876.591838	1383.011102	2848.326786		
832.7953461	653.4098124	643.6773808	2035.976575		
709.9608464	1.520065798	1.61E-11	1.40E-09		SMAD3
15	67063763	67195195	+	9113	
protein_coding	SMAD family member 3 [Source:HGNC				
Symbol;Acc:HGNC:6769]	MH1	1622	1492	2913	829
656	9.733839756	7.218407753	14.80749416		715
4.398396499	3.419032817	3.36038088			
ENSG00000122966	1077.13132	1075.263323	1667.1463		
506.3074239	467.8962572	522.9878719	1273.180314		
499.063851	1.35154468	2.03E-11	1.75E-09		CIT
12	119685790	119877291	-	13230	
protein_coding	citron rho-interacting serine/threonine kinase				
[Source:HGNC Symbol;Acc:HGNC:1985]			-	931	1160
504	512	533	3.84843849	3.86573521	1705
5.969899154	1.841924857	1.686431535	1.880673481		
ENSG00000142039	858.4655634	982.5682093	934.7752859		
2234.181966	1684.243754	1900.614461	925.2696862		
1939.68006	-1.067253454	2.08E-11	1.79E-09		CCDC97
19	41310189	41324883	+	3821	
protein_coding	coiled-coil domain containing 97 [Source:HGNC				
Symbol;Acc:HGNC:28289]			-	742	1060
1937	10.61992819	12.23102308	11.58999665	956	2224
28.14225939	21.01875051	23.66457008			1843
ENSG00000158402	233.7062585	228.0299806	330.4958647		
34.15565955	70.36721056	51.02320701	264.0773679		
51.84869237	2.345802352	2.52E-11	2.15E-09		CDC25C
5	138285265	138338355	-	3338	
protein_coding	cell division cycle 25C [Source:HGNC				
Symbol;Acc:HGNC:1727]			-	202	246
52	3.309479916	3.249247046	4.690647787	338	34
0.4924859	1.005224328	0.727215366			77
ENSG00000050165	1137.293327	1201.328679	1849.016805		

455.0739346	409.4092251	627.9779325	1395.879604	
497.4870307	1.488960231	2.65E-11	2.25E-09	DKK3
11	11963106	12009769	- 5059	
protein_coding	dickkopf WNT signaling pathway inhibitor 3			
[Source:HGNC Symbol;Acc:HGNC:2893]		-	983 1296	1891
453	448 640	10.62633618	11.29468908	
17.31527149	4.329470044	3.858974709	5.90556332	
ENSG00000126777	5580.026162	4803.460812	5762.166066	
3068.986468	2941.714945	2940.702912	5381.884347	
2983.801442	0.850889594	2.73E-11	2.30E-09	KTN1
14	55559072	55701526	+ 17575	
protein_coding	kinectin 1 [Source:HGNC Symbol;Acc:HGNC:6467]			-
4823	5182 5893	3055 3219	2997 15.00778644	
12.99978091	15.53257872	8.404600938	7.981494905	
7.960446815				
ENSG00000123219	822.5997514	547.8281242	786.1499266	
277.2635893	271.4163836	225.6795695	718.8592674	
258.1198474	1.476840775	2.97E-11	2.50E-09	CENPK
5	65517766	65563171	- 4312	
protein_coding	centromere protein K [Source:HGNC			
Symbol;Acc:HGNC:29479]	-	711 591	804 276	297
230	9.017487756	6.042862142	8.637334767	
3.094792576	3.001485813	2.489975762		
ENSG00000146670	1771.308326	1761.207168	2376.050151	
956.3584674	943.1033935	849.7326399	1969.521881	
916.3981669	1.103930728	3.00E-11	2.51E-09	CDCA5
11	65066300	65084164	- 3925	
protein_coding	cell division cycle associated 5 [Source:HGNC			
Symbol;Acc:HGNC:14626]	-	1531 1900	2430 952	1032
866	21.33193454	21.34262815	28.67933443	
11.72731266	11.45773132	10.29969269		
ENSG00000145934	372.5416596	550.6089777	890.7743571	
149.6821551	83.16124884	172.6939314	604.6416648	
135.1791118	2.163169769	3.51E-11	2.92E-09	TENM2
5	167284799	168264157	+ 11042	
protein_coding	teneurin transmembrane protein 2 [Source:HGNC			
Symbol;Acc:HGNC:29943]	-	322 594	911 149	91
176	1.594787568	2.371770484	3.821845179	
0.652438743	0.359130465	0.744065145		
ENSG00000164442	1664.867851	2327.574315	1365.984387	
3674.747136	4666.168534	4126.992475	1786.142184	
4155.969382	-1.218088463	3.65E-11	3.01E-09	CITED2
6	139371807	139374620	- 2535	
protein_coding	Cbp/p300 interacting transactivator with Glu/Asp rich			
carboxy-terminal domain 2 [Source:HGNC Symbol;Acc:HGNC:1987]				-
1439	2511 1397	3658 5106	4206 31.04399058	
43.67196236	25.52824142	69.76971581	87.77310149	
77.45283887				
ENSG00000165480	845.7389849	696.1403068	777.3497408	
360.6435817	270.5025237	229.6044316	773.0763442	

286.9168457	1.430036562	4.06E-11	3.34E-09	SKA3
13	21153595	21176602	- 3048	
protein_coding	spindle and kinetochore associated complex subunit 3			
[Source:HGNC Symbol;Acc:HGNC:20262]	-	731	751 795	
359	296 234	13.11587071	10.86322894	
12.08243929	5.69482919	4.231899507	3.583826121	
ENSG00000204262	3056.692747	1801.066067	3962.039182	
977.45461	947.6726929	1227.500615	2939.932665	
1050.875973	1.484131277	4.35E-11	3.55E-09	COL5A2
2	189031896	189225312	- 7453	
protein_coding	collagen type V alpha 2 chain [Source:HGNC			
Symbol;Acc:HGNC:2210]	-	2642 1943	4052 973 1037	
1251	19.38636587	11.49411763	25.18493134	
6.312231752	6.063260575	7.8355994		
ENSG00000113368	3946.396276	3848.701137	5338.779352	
2247.241483	1869.757309	2234.227738	4377.958922	
2117.07551	1.048369784	4.71E-11	3.83E-09	LMNB1
5	126776623	126837020	+ 3633	
protein_coding	lamin B1 [Source:HGNC Symbol;Acc:HGNC:6637]			-
3411	4152 5460	2237 2046	2277 51.34652231	
50.38785895	69.61930775	29.77157446	24.54137147	
29.25793485				
ENSG00000139618	2345.161317	1786.234848	1977.108397	
1084.94448	913.8598774	953.7414849	2036.168188	
984.1819474	1.048613393	4.92E-11	3.98E-09	BRCA2
13	32315474	32400266	+ 12273	
protein_coding	"BRCA2, DNA repair associated [Source:HGNC			
Symbol;Acc:HGNC:1101]"	-	2027 1927	2022 1080 1000	
972	9.032286967	6.922531465	7.631903543	
4.254751869	3.550649992	3.697103141		
ENSG00000140961	231.3923351	382.8308212	336.3626552	
874.9876314	738.398781	1020.46414	316.8619372	
877.9501842	-1.467743454	6.21E-11	5.00E-09	OSGIN1
16	83948282	83966332	+ 3460	
protein_coding	oxidative stress induced growth inhibitor 1			
[Source:HGNC Symbol;Acc:HGNC:30093]	-	200	413 344	
871	808 1040	3.161175516	5.262691482	
4.605584974	12.17147672	10.17639275	14.03147337	
ENSG00000013810	1869.650068	2103.252139	2872.771747	
1139.191704	692.7057871	883.0939675	2281.891318	
904.9971528	1.334824561	7.16E-11	5.73E-09	TACC3
4	1721490 1745176	+ 6528	protein_coding	
transforming acidic coiled-coil	containing protein 3 [Source:HGNC			
Symbol;Acc:HGNC:11524]	-	1616 2269	2938 1134 758	
900	13.53804407	15.32457038	20.8484658	
8.399126559	5.059966687	6.435886841		
ENSG00000128487	746.2402808	781.4198117	1215.403431	
377.7214115	320.764817	293.3834403	914.354508	
330.6232229	1.468144494	7.81E-11	6.22E-09	SPECC1
17	20009344	20319026	+ 13676	

protein_coding	sperm antigen with calponin homology and coiled-coil domains 1 [Source:HGNC Symbol;Acc:HGNC:30615]	-	645	843	
	1243 376 351 299	2.57926126	2.717705795		
	4.210314059 1.329321317	1.118424371	1.020606035		
ENSG00000166033	6846.899197	4003.501977	8315.197731		
1717.82876	1124.047649	1270.674098	6388.532968		
1370.850169	2.220459214	8.01E-11	6.35E-09		HTRA1
10	122458551	122514908	+	2279	
protein_coding	HtrA serine peptidase 1 [Source:HGNC Symbol;Acc:HGNC:9476]	-	5918 4319	8504 1710	1230
	1295 142.0120996	83.55507567	172.8547754		
36.27880738	23.5190288	26.52598252			
ENSG00000182158	1624.374193	1404.330978	2351.605191		
807.6808905	633.304895	750.6298724	1793.436787		
730.5385526	1.296007392	8.88E-11	6.99E-09		
CREB3L2 7	137874979	138002067	-	8788	
protein_coding	cAMP responsive element binding protein 3 like 2 [Source:HGNC Symbol;Acc:HGNC:23720]	TF_bZIP	1404 1515	2405	
	804 693 765	8.737189844	7.600751652		
12.67732103	4.423512074	3.436384758	4.063660549		
ENSG00000167004	5304.669283	4046.14173	6033.016228		
2143.769926	2301.099171	2813.144894	5127.942414		
2419.337997	1.083694919	9.82E-11	7.70E-09		PDIA3
15	43746392	43773279	+	4240	
protein_coding	protein disulfide isomerase family A member 3 [Source:HGNC Symbol;Acc:HGNC:4606]	-	4585 4365	6170	
	2134 2518 2867	59.13821286	45.38918131		
67.40960204	24.33491171	25.87905818	31.56515107		
ENSG00000106003	559.969451	832.4021245	1284.827119		
261.1903377	187.3412749	313.9889662	892.3995648		
254.1735263	1.813089145	1.04E-10	8.12E-09		LFNG
7	2512529 2529177	+	3418		
0-fucosylpeptide	3-beta-N-acetylglucosaminyltransferase [Source:HGNC Symbol;Acc:HGNC:6560]	-	484 898	1314 260	205
	320 7.74404764	11.58345821	17.80843529		
3.677921927	2.613607697	4.370427858			
ENSG00000211459	19399.93338	32750.11076	20191.53729		
56149.89514	48453.76456	54994.18622	24113.86048		
53199.28197	-1.141494258	1.05E-10	8.17E-09		MT-
RNR1 MT	648 1601	+	954		
mitochondrially	encoded 12S RNA [Source:HGNC Symbol;Acc:HGNC:7470]	-	16768 35331	20650 55894	53021 56047
	961.2306345	1632.832038	1002.707208	2832.813819	
2421.910765	2742.521446				
ENSG00000012048	2381.027129	2055.050679	2715.346202		
1317.002049	1128.616949	1097.980166	2383.808003		
1181.199721	1.013065195	1.21E-10	9.37E-09		BRCA1
17	43044295	43170245	-	9187	
protein_coding	"BRCA1, DNA repair associated [Source:HGNC Symbol;Acc:HGNC:1100]"	-	2058 2217	2777 1311	1235

1119	12.25085407	10.63961553	14.00246898	
6.899699743	5.858033339	5.685941747		
ENSG00000258791	72.88858557	78.79084697	44.97872714	
350.5977995	458.7576585	187.4121642	65.5527199	
332.2558741	-2.342630926	1.28E-10	9.82E-09	
LINC00520	14	55781132	55796731	-
	lincRNA	long intergenic non-protein coding RNA	520	3482
	[Source:HGNC Symbol;Acc:HGNC:19843]	-	63	85
	349	502	191	0.989478804
0.611971956	4.846161429	6.282515201	2.560652446	
ENSG00000102317	4408.023984	4142.544648	4479.294544	
2310.529911	2606.32837	2541.348195	4343.287726	
2486.068825	0.804788262	1.32E-10	1.01E-08	RBM3
X	48574449	48579066	+	3731
protein_coding	RNA binding motif protein 3	[Source:HGNC		
Symbol;Acc:HGNC:9900]	-	3810	4469	4581
	2590	55.84630442	52.81035217	56.87710703
29.8060073	33.31063179	32.40563611		
ENSG00000169919	970.6908459	928.8050431	1240.82619	
472.1517644	456.0160788	478.8331735	1046.774026	
469.0003389	1.158518583	1.55E-10	1.18E-08	GUSB
7	65960684	65982314	-	3992
protein_coding	glucuronidase beta	[Source:HGNC		
Symbol;Acc:HGNC:4696]	-	839	1002	1269
	11.4938663	11.06652188	14.72561851	5.692572125
5.447140919	5.706572316			
ENSG00000075702	1049.36424	1050.235643	1829.460837	
533.4310359	413.0646646	498.4574839	1309.686906	
481.6510615	1.443741938	1.73E-10	1.31E-08	WDR62
19	36054881	36105106	+	9812
protein_coding	WD repeat domain 62	[Source:HGNC		
Symbol;Acc:HGNC:24502]	-	907	1133	1871
	508	5.055271213	5.091037878	8.833213017
2.616605187	2.007425761	2.416863977		
ENSG00000197019	579.6377995	653.5005543	548.5449115	
1229.603744	1197.156439	1190.214425	593.8944218	
1205.658203	-1.021118797	1.80E-10	1.36E-08	
SERTAD1	19	40421592	40426025	-
				2114
protein_coding	SERTA domain containing 1	[Source:HGNC		
Symbol;Acc:HGNC:17932]	-	501	705	561
	1213	12.96067008	14.70341083	12.29306942
27.99481819	27.00380172	26.78562928		
ENSG00000173545	1249.51861	1203.182581	924.9973017	
2627.976629	2188.694406	2156.711712	1125.899497	
2324.460916	-1.046092236	1.85E-10	1.38E-08	ZNF622
5	16451519	16465792	-	1699
protein_coding	zinc finger protein 622	[Source:HGNC		
Symbol;Acc:HGNC:30958]	-	1080	1298	946
	2198	34.76362763	33.6833495	25.79290231
74.44672155	61.42861684	60.3921297		2395

ENSG00000142627	3033.553514	3398.202882	5671.230814	
1564.128292	1347.943319	1884.915013	4034.32907	
1598.995541	1.335395386	1.88E-10	1.41E-08	EPHA2
1	16124337	16156087	- 4159	
protein_coding	EPH receptor A2 [Source:HGNC Symbol;Acc:HGNC:3386]			
-	2622 3666	5800 1557	1475 1921	
34.47771535	38.8631052	64.60134037	18.10093083	
15.4547398	21.56177354			
ENSG00000158109	1367.528701	1512.784262	1045.266507	
2481.308208	2760.77069	2767.027765	1308.52649	
2669.702221	-1.028775149	2.11E-10	1.57E-08	TPRG1L
1	3625002 3630127 +	2414	protein_coding	tumor
protein	p63 regulated 1 like [Source:HGNC Symbol;Acc:HGNC:27007]			
-	1182 1632	1069 2470	3021 2820	
26.77780185	29.80690248	20.51364782	49.47216359	
54.53459061	54.53281019			
ENSG00000103187	4667.1834	5583.953672	6696.941352	
2245.232326	2446.402892	3255.673094	5649.359475	
2649.102771	1.09271859	2.34E-10	1.72E-08	COTL1
16	84565594	84618077	- 6762	
protein_coding	coactosin like F-actin binding protein 1 [Source:HGNC Symbol;Acc:HGNC:18304]			
-	3318	4034 6024	6849 2235 2677	
15.98098624	32.62536959	39.27749253	46.9196167	
15.98098624	17.25169623	22.90589424		
ENSG00000196262	29628.63155	26976.1321	31622.97858	
15273.60729	18203.1749	17648.14233	29409.24741	
17041.64151	0.787179585	2.53E-10	1.86E-08	PPIA
7	44796680	44824564	+ 4432	
protein_coding	peptidylprolyl isomerase A [Source:HGNC Symbol;Acc:HGNC:9253]			
-	17986	25609 29102	32341 15204 19919	
165.8667464	316.0003627	289.5056492	338.0307029	
165.8667464	195.8512635	189.4440079		
ENSG00000205336	327.4201542	118.649746	267.916766	
44.20144177	31.07123583	43.17348286	237.9955554	
39.48205349	2.591576054	2.74E-10	2.00E-08	ADGRG1
16	57610652	57665580	+ 8659	
protein_coding	adhesion Gprotein-coupled receptor G1 [Source:HGNC Symbol;Acc:HGNC:4512]			
-	44	283 128	274 44 34	
0.245689249	1.787365655	0.651742719	1.465835647	
0.245689249	0.171107787	0.237208896		
ENSG00000117632	8978.022604	11194.78893	12492.35256	
4616.03693	6213.333307	5698.899737	10888.38803	
5509.423325	0.982838363	2.92E-10	2.13E-08	STMN1
1	25884181	25906991	- 6261	
protein_coding	stathmin 1 [Source:HGNC Symbol;Acc:HGNC:6510]			
-	7760	12077 12776 4595 6799	5808 67.78174265	
85.04510477	94.52651685	35.48485447	47.32165611	
43.3040923				
ENSG00000040275	1512.14891	1176.300998	1406.074122	
714.2551159	643.3573537	611.2972686	1364.841343	

656.3032461	1.055952183	2.96E-10	2.15E-08	SPDL1
5	169583634	169604778	+ 4777	
protein_coding	spindle apparatus coiled-coil protein 1 [Source:HGNC			
Symbol;Acc:HGNC:26010]	-	1307 1269	1438 711	704
623	14.96287539	11.71225013	13.94460127	
7.196404657	6.4220845	6.088058841		
ENSG00000140451	179.3290597	283.6470491	484.010216	
40.18312888	44.77913399	82.42210364	315.6621083	
55.79478884	2.501694993	3.08E-10	2.22E-08	PIF1
15	64815632	64825668	- 4656	
protein_coding	PIF1 5'-to-3' DNA helicase [Source:HGNC			
Symbol;Acc:HGNC:26220]	-	155 306	495 40	49
84	1.820595392	2.897626554	4.924869002	
0.415382539	0.458608084	0.842194402		
ENSG00000164032	6050.909564	7099.518788	7492.869263	
3600.408348	3732.203739	4180.959328	6881.099205	
3837.857139	0.842467997	3.09E-10	2.22E-08	H2AFZ
4	99948086	99950388	- 2303	
protein_coding	H2A histone family member Z [Source:HGNC			
Symbol;Acc:HGNC:4741]	-	5230 7659	7663 3584	4084
4261	124.1945287	146.6263722	154.1371567	
75.2445899	77.2770248	86.37014169		
ENSG00000224051	923.2554172	1649.04608	1297.538498	
3116.201645	2861.295276	2783.708429	1289.946665	
2920.401783	-1.177887732	3.22E-10	2.30E-08	CPTP
1	1324756 1328897	+ 2556	protein_coding	
ceramide-1-phosphate transfer protein [Source:HGNC				
Symbol;Acc:HGNC:28116]	-	798 1779	1327 3102	3131
2837	17.07405809	30.68662008	24.0498587	
58.67892656	53.38027611	51.81368997		
ENSG00000160049	2201.698069	2239.513956	1833.37203	
4369.915266	4043.829958	3455.84106	2091.528018	
3956.528761	-0.919756118	3.32E-10	2.36E-08	DFFA
1	10456522	10472526	- 6622	
protein_coding	DNA fragmentation factor subunit alpha [Source:HGNC			
Symbol;Acc:HGNC:2772]	-	1903 2416	1875 4350	4425
3522	15.71608339	16.0857647	13.11639695	
31.76152138	29.11941838	24.82825579		
ENSG00000148082	999.6148878	875.9688281	634.5911721	
1785.135501	1815.839576	1841.74153	836.7249627	
1814.238869	-1.117342679	3.76E-10	2.66E-08	SHC3
9	89005771	89178767	- 9929	
protein_coding	SHC adaptor protein 3 [Source:HGNC			
Symbol;Acc:HGNC:18181]	-	864 945	649 1777	1987
1877	4.758860175	4.196239386	3.027900794	
8.65332736	8.720692119	8.8247985		
ENSG00000128708	2082.531016	1801.066067	1864.66158	
1093.985684	947.6726929	996.9149678	1916.086221	
1012.857781	0.919613719	3.82E-10	2.69E-08	HAT1
2	171922448	171983682	+ 6790	

protein_coding	histone acetyltransferase 1 [Source:HGNC					
Symbol;Acc:HGNC:4821]	-	1800	1943	1907	1089	1037
1016	14.49764441	12.61644458		13.01018208		
7.754598592	6.655299126	6.985057242				
ENSG00000152253	354.0302728	427.3244759		617.968599		
72.32963199	166.3224977	113.8210003		466.4411159		
117.4910433	1.987725574	4.33E-10		3.03E-08		SPC25
2	168834132	168913371		-	1841	
protein_coding	"SPC25, NDC80 kinetochore complex component					
[Source:HGNC Symbol;Acc:HGNC:24031]"	-			306	461	632
72	182	116	9.089967924	11.0403056		
15.9025125	1.890949473		4.308004986	2.941373914		
ENSG00000124207	9283.460486		7664.958984	8040.436376		
4187.082029	5182.499365		4517.516252	8329.618615		
4629.032549	0.847352301		4.34E-10	3.03E-08		CSE1L
20	49046246		49096960	+	3800	
protein_coding	chromosome segregation 1 like [Source:HGNC					
Symbol;Acc:HGNC:2431]	-	8024	8269	8223	4168	5671
4604	115.4787399		95.94080393	100.2418676		
53.03289437	65.03312874		56.55848323			
ENSG00000174371	1747.01213		1525.761578	1745.370173		
517.3577843	838.9233675		820.2961743	1672.714627		
725.5257754	1.20453963		4.65E-10	3.23E-08		EX01
1	241847967		241895148	+	4140	
protein_coding	exonuclease 1 [Source:HGNC Symbol;Acc:HGNC:3511]					
-	1510	1646	1785	515	918	836
19.94671208	17.52925455		19.97286356	6.014618758		
9.662754326	9.426532564					
ENSG00000114268	1056.30601		613.6416552	1012.999159		
328.4970786	319.8509571		365.0121732	894.3156081		
337.7867363	1.404055829		4.84E-10	3.35E-08		PFKFB4
3	48517684		48562015	-	6107	
protein_coding	"6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4					
[Source:HGNC Symbol;Acc:HGNC:8875]"	-			913	662	1036
327	350	372	8.175937639	4.779297085		
7.858402898	2.588934418		2.49746104	2.843551222		
ENSG00000136869	513.690984		293.8435116	549.5227099		
111.5081826	148.95916		134.4265262	452.3524018		
131.6312896	1.779409261		4.86E-10	3.35E-08		TLR4
9	117704175		117724730	+	13272	
protein_coding	toll like receptor 4 [Source:HGNC					
Symbol;Acc:HGNC:11850]	-	444	317	562	111	163
137	1.829537476		1.053069046	1.96156362		
0.404378281	0.535192266		0.481870378			
ENSG00000168461	6136.524728		4347.400851	4822.501789		
2668.159758	2832.96562		2410.846531	5102.142456		
2637.32397	0.951731433		5.00E-10	3.43E-08		RAB31
18	9708165	9862551	+	5586		
protein_coding	"RAB31, member RAS oncogene family [Source:HGNC					
Symbol;Acc:HGNC:9771]"	-	5304	4690	4932	2656	3100

2457	51.92748593	37.01739638	40.90012096	
22.98943806	24.18351142	20.53289853		
ENSG00000168159	2008.485469	2790.122934	2256.758745	
4556.766815	4195.530697	4581.29526	2351.789049	
4444.530924	-0.917785785	5.85E-10	3.99E-08	RNF187
1	228487061	228495766	+ 3285	
protein_coding	ring finger protein 187 [Source:HGNC			
Symbol;Acc:HGNC:27146]	-	1736 3010	2308 4536	4591
4669	28.90074644	40.39848508	32.54639466	
66.7634681	60.90185439	66.34902356		
ENSG00000133216	1403.394513	1065.066861	1486.253593	
680.0994563	359.1469318	441.5469838	1318.238322	
493.5977906	1.41768338	6.20E-10	4.21E-08	EPHB2
1	22710839	22921500	+ 12516	
protein_coding	EPH receptor B2 [Source:HGNC			
Symbol;Acc:HGNC:3393]	-	1213 1149	1520 677	393 450
5.300171947	4.047514676	5.625750783	2.615316963	
1.368313443	1.678390432			
ENSG00000138448	1993.444967	1430.28561	2117.911369	
960.3767803	520.9001301	684.8884326	1847.213982	
722.0551143	1.355478559	6.28E-10	4.25E-08	ITGAV
2	186590065	186680901	+ 8211	
protein_coding	integrin subunit alpha V [Source:HGNC			
Symbol;Acc:HGNC:6150]	-	1723 1543	2166 956	570
698	11.47582556	8.285215937	12.21982133	
5.629412286	3.02508374	3.968308309		
ENSG00000124496	892.017452	800.8857857	1228.114811	
441.0098395	376.5102695	401.3171475	973.6726828	
406.2790855	1.261332689	6.40E-10	4.31E-08	TRERF1
6	42224931	42452051	- 7732	
protein_coding	transcriptional regulating factor 1 [Source:HGNC			
Symbol;Acc:HGNC:18273]	zf-C2H2	771 864	1256 439	412
409	5.453273071	4.926697021	7.524891631	
2.745199375	2.322009373	2.469320708		
ENSG00000186871	821.4427898	761.0268866	1035.488523	
333.5199697	421.2894035	364.0309577	872.652733	
372.946777	1.226019071	6.53E-10	4.37E-08	ERCC6L
X	72204657	72239047	- 4364	
protein_coding	"ERCC excision repair 6 like, spindle assembly			
checkpoint helicase [Source:HGNC	Symbol;Acc:HGNC:20794]"			-
710	821 1059	332 461	371 8.897506615	
8.294541286	11.24122587	3.67836277	4.60335832	
3.968580586				
ENSG00000124762	1035.4807	1584.1595	789.0833218	
2638.022411	3370.315228	2555.085213	1136.241174	
2854.474284	-1.328574692	6.54E-10	4.37E-08	CDKN1A
6	36676460	36687339	+ 3050	
protein_coding	cyclin dependent kinase inhibitor 1A [Source:HGNC			
Symbol;Acc:HGNC:1784]	-	895 1709	807 2626	3688
2604	16.04788889	24.70450642	12.25677323	

41.62901154	52.69260514	39.85540038				
ENSG00000121957	1583.880534	1411.746588	1750.259165			
699.1864425	857.200565	814.4088812	1581.962095			
790.2652962	1.000947328	6.78E-10	4.51E-08			GPSM2
1	108875350	108934545	+ 9130			
protein_coding	G protein signaling modulator 2 [Source:HGNC					
Symbol;Acc:HGNC:29501]	-	1369 1523	1790 696			938
830	8.200255485	7.354668185	9.082067163			
3.685867156	4.477036742	4.243784778				
ENSG00000100234	6404.939837	6280.093979	7077.304936			
2893.185279	3592.383178	4073.025621	6587.446251			
3519.53136	0.904299373	7.35E-10	4.87E-08			TIMP3
22	32801701	32863043	+ 4603			
protein_coding	TIMP metalloproteinase inhibitor 3 [Source:HGNC					
Symbol;Acc:HGNC:11822]	-	5536 6775	7238 2880			3931
4151	65.77332837	64.89366203	72.84169778			
30.2519051	37.21522651	42.09764431				
ENSG00000167703	89.08604903	64.88657986	111.4690194			
1.004578222	9.138598774	1.962431039	88.48054944			
4.035202678	4.429481469	7.62E-10	5.02E-08			
SLC43A2 17	1569267 1628886	- 10606	protein_coding			solute
carrier family 43 member 2	[Source:HGNC Symbol;Acc:HGNC:23087]					-
77	70 114	1 10	2			0.397039591
0.290991548	0.497915544	0.00455879	0.041087241			
0.008802872						
ENSG00000082781	4344.391092	3718.927977	5010.239084			
2371.809182	2065.323323	2481.494049	4357.852718			
2306.208851	0.91814583	7.65E-10	5.02E-08			ITGB5
3	124761948	124901418	- 6447			
protein_coding	integrin subunit beta 5 [Source:HGNC					
Symbol;Acc:HGNC:6160]	-	3755 4012	5124 2361			2260
2529	31.85275373	27.4370372	36.81746704			
17.70677763	15.27599004	18.31205968				
ENSG00000138758	5622.833744	4721.889111	5816.922778			
2827.887695	3317.311355	2801.370308	5387.215211			
2982.189786	0.852974977	8.15E-10	5.32E-08			11-Sep
4	76949703	77040384	+ 9787			
protein_coding	septin 11 [Source:HGNC Symbol;Acc:HGNC:25589]					-
4860	5094 5949	2815 3630	2855 27.15697507			
22.94791911	28.15767788	13.90689025	16.1627641			
13.6176623						
ENSG00000103995	704.5896605	640.5232383	754.8603773			
180.82408	321.6786769	273.7591299	699.991092			
258.7539622	1.434583693	8.62E-10	5.61E-08			CEP152
15	48712928	48811146	- 8168			
protein_coding	centrosomal protein 152 [Source:HGNC					
Symbol;Acc:HGNC:29298]	-	609 691	772 180			352
279	4.077521656	3.729892166	4.378284989			
1.065511135	1.877956517	1.594536665				
ENSG00000100065	258.0024537	260.4732706	359.8298171			

82.37541421	95.04142725	73.59116396	292.7685138	
83.66933514	1.806599592	9.43E-10	6.11E-08	CARD10
22	37490362	37519542	- 5652	
protein_coding	caspase recruitment domain family member 10			
[Source:HGNC Symbol;Acc:HGNC:16422]	-	223	281	368
82	104 75	2.157731604	2.19198776	
3.016116561	0.70147616	0.801843815	0.619448415	
ENSG00000081923	424.604935	312.3825345	440.9870857	
74.33878843	97.78300688	152.0884055	392.658185	
108.0700669	1.860774036	9.59E-10	6.19E-08	ATP8B1
18	57646426	57803315	- 7028	
protein_coding	ATPase phospholipid transporting 8B1 [Source:HGNC			
Symbol;Acc:HGNC:3706]	-	367 337	451 74	107
155	2.85580812	2.11413203	2.972673728	
0.509097757	0.663453703	1.029546535		
ENSG00000197461	1163.903446	1403.404027	1898.884524	
514.3440497	700.930526	666.2453377	1488.730666	
627.1733045	1.247234671	1.03E-09	6.59E-08	PDGFA
7	497258 520296	- 4151	protein_coding	
platelet derived growth factor subunit A [Source:HGNC				
Symbol;Acc:HGNC:8799]	-	1006 1514	1942 512	767
679	13.25378618	16.0807796	21.6719978	
5.963736467	8.051952946	7.635950013		
ENSG00000102384	815.6579814	583.9792187	996.3765861	
352.6069559	284.2104219	264.9281903	798.6712621	
300.581856	1.409874648	1.14E-09	7.28E-08	CENPI
X	101098218	101163681	+ 4321	
protein_coding	centromere protein I [Source:HGNC			
Symbol;Acc:HGNC:3968]	-	705 630	1019 351	311
270	8.922767226	6.428212739	10.92426869	
3.927571199	3.136423654	2.91692682		
ENSG00000167106	391.0530464	532.996906	412.6309316	
900.1020869	986.0548077	1089.149227	445.5602947	
991.7687071	-1.15312279	1.14E-09	7.28E-08	
FAM102A 9	127940579	127980513	- 6100	
protein_coding	family with sequence similarity 102 member A			
[Source:HGNC Symbol;Acc:HGNC:31419]	-	338	575	422
896	1079 1110	3.030271756	4.155965825	
3.204682965	7.10197912	7.708150888	8.49452658	
ENSG00000164932	851.5237933	786.0545674	933.7974874	
233.0621475	323.5063966	428.791182	857.1252827	
328.453242	1.383550232	1.17E-09	7.43E-08	CTHRC1
8	103371515	103382997	+ 1776	
protein_coding	collagen triple helix repeat containing 1 [Source:HGNC			
Symbol;Acc:HGNC:18831]	-	736 848	955 232	354
437	22.66363492	21.05168431	24.90937702	
6.316059898	8.685981466	11.48641522		
ENSG00000083720	1055.149048	967.736991	1224.203617	
538.453927	357.3192121	506.307208	1082.363219	
467.3601157	1.212246783	1.27E-09	8.04E-08	OXCT1

5	41730065	41870519	-	4194		
protein_coding	3-oxoacid CoA-transferase 1 [Source:HGNC					
Symbol;Acc:HGNC:8527]	-	912	1044	1252	536	391
516	11.89217044	10.97503795		13.82860458		
6.179275807	4.062626799	5.743376824				
ENSG00000124795	7212.499086	5302.160526		5881.457473		
3327.163071	3490.944732	3332.207904		6132.039028		
3383.438569	0.857641527	1.30E-09		8.21E-08		DEK
6	18223868	18264823		-	4361	
protein_coding	DEK proto-oncogene [Source:HGNC					
Symbol;Acc:HGNC:2768]	6234	5720	6015	3312	3820	3396
78.17635618	57.82876268	63.89281177		36.72023551		
38.17120534	36.35194317					
ENSG00000166833	1499.422332	1191.132216		1958.530228		
710.236803	425.8587029	678.019924		1549.694925		
604.7051433	1.358149842	1.34E-09		8.37E-08		NAV2
11	19350724	20121598		+	14673	
protein_coding	neuron navigator 2 [Source:HGNC					
Symbol;Acc:HGNC:15997]	1296	1285	2003	707	466	691
4.83037443	3.861163287	6.323601409		2.329709189		
1.383966561	2.198392155					
ENSG00000132780	6654.843559	6141.051308		6178.708192		
3886.713141	3636.248452	3991.584733		6324.867686		
3838.182109	0.720578202	1.51E-09		9.43E-08		NASP
1	45583846	45618904		+	8304	
protein_coding	nuclear autoantigenic sperm protein [Source:HGNC					
Symbol;Acc:HGNC:7644]	-	5752	6625	6319	3869	3979
4068	37.88141994	35.17486992		35.25035302		
22.52747963	20.88070686	22.86860323				
ENSG00000178202	3957.965893	3134.948758		3770.390693		
2014.179335	1571.838989	2073.308393		3621.101781		
1886.442239	0.940766842	1.57E-09		9.77E-08		KDELC2
11	108472105	108498432		-	4993	
protein_coding	KDEL motif containing 2 [Source:HGNC					
Symbol;Acc:HGNC:28496]	-	3421	3382	3856	2005	1720
2113	37.47021809	29.86386373		35.7748577		
19.41574357	15.01154798	19.75531536				
ENSG00000134508	385.268238	535.7777594		782.2387329		
211.9660048	125.1988032	171.7127159		567.7615768		
169.6258413	1.744788096	1.68E-09		1.04E-07		
CABLES1 18	23134564	23260467		+	6654	
protein_coding	Cdk5 and Abl enzyme substrate 1 [Source:HGNC					
Symbol;Acc:HGNC:25097]	-	333	578	800	211	137
175	2.736882481	3.829825618		5.569415848		
1.533207289	0.897214675	1.227725533				
ENSG00000225614	695.3339671	494.9919092		1284.827119		
241.0987733	245.828307	261.9845437		825.0509984		
249.637208	1.724735117	1.69E-09		1.04E-07		ZNF469
16	88427471	88440757		+	13287	
protein_coding	zinc finger protein 469 [Source:HGNC					

Symbol;Acc:HGNC:23216]	zf-C2H2	601	534	1314	240	269
267	2.473672778	1.771937013	4.581111751			
0.873344367	0.882234309	0.938059449				
ENSG00000178773	2.313923351	8.342560268	1.955596832			
40.18312888	119.7156439	113.8210003	4.204026817			
91.23992436	-4.411598298	1.75E-09	1.07E-07			CPNE7
16	89575768	89597246	+	3048		
protein_coding	copine 7 [Source:HGNC	Symbol;Acc:HGNC:2320]				-
2	9	2	40	131	116	0.035884735
0.130185167	0.030396074	0.634521358	1.872901471			
1.776597564						
ENSG00000129534	957.9642675	764.7346912	1029.621732			
386.7626155	462.413098	317.9138283	917.4402303			
389.0298473	1.236933985	1.80E-09	1.10E-07			
MIS18BP1	14	45203190	45253540	-		6250
protein_coding	MIS18 binding protein 1 [Source:HGNC					
Symbol;Acc:HGNC:20190]	-	828	825	1053	385	506
324	7.24511081	5.819797708	7.804602876			
2.978392494	3.528004231	2.419975832				
ENSG00000228253	753.1820509	1038.185278	1002.243377			
1852.442241	1930.985921	1754.413349	931.2035684			
1845.94717	-0.986188016	1.88E-09	1.15E-07			MT-
ATP8	MT	8366	8572	+	207	protein_coding
mitochondrially encoded ATP synthase membrane subunit 8 [Source:HGNC						
Symbol;Acc:HGNC:7415]	-	651	1120	1025	1844	2113
1788	171.9908552	238.5512163	229.3802257			
430.7167763	444.823527	403.221058				
ENSG00000079616	1389.510973	1426.577806	1849.016805			
720.2825852	665.2899908	852.6762864	1555.035194			
746.0829541	1.059929681	1.94E-09	1.18E-07			KIF22
16	29790719	29805385	+	4312		
protein_coding	kinesin family member 22 [Source:HGNC					
Symbol;Acc:HGNC:6391]	-	1201	1539	1891	717	728
869	15.23207144	15.73598111	20.31492543			
8.039732888	7.357177345	9.407777989				
ENSG00000082497	566.9112211	364.2917984	697.1702707			
154.7050462	203.7907527	174.6563625	542.7910967			
177.7173871	1.609723335	2.01E-09	1.21E-07			
SERTAD4	1	210232799	210246631	+	5467	
protein_coding	SERTA domain containing 4 [Source:HGNC					
Symbol;Acc:HGNC:25236]	-	490	393	713	154	223
178	4.90164347	3.169402779	6.041474013			
1.36198669	1.777519554	1.519906822				
ENSG00000130706	3610.87739	4318.665365	3936.616423			
7850.778805	6461.903193	6518.214696	3955.386393			
6943.632231	-0.811646579	2.18E-09	1.31E-07			ADRM1
20	62302093	62308862	+	2142		
protein_coding	adhesion regulating molecule 1 [Source:HGNC					
Symbol;Acc:HGNC:15759]	-	3121	4659	4026	7815	7071
6643	79.68361251	95.89748155	87.06763738			

176.4049357	143.8533462	144.7740827				
ENSG00000185567	1067.875627	1636.068764	798.861306			
2717.384091	2499.406765	3499.014542	1167.601899			
2905.268466	-1.314666982	2.30E-09	1.38E-07	AHNAK2		
14	104937244	104978357	-	18771		
protein_coding	AHNAK nucleoprotein 2 [Source:HGNC					
Symbol;Acc:HGNC:20125]	-	923	1765	817	2705	2735
3566	2.689112702	4.145636869	2.016216213			
6.967565759	6.34933905	8.868291604				
ENSG00000000971	584.2656462	374.4882609	689.3478834			
185.8469711	184.5996952	195.2618884	549.3672635			
188.5695182	1.54220899	2.34E-09	1.40E-07	CFH		
1	196651878	196747504	+	8145		
protein_coding	complement factor H [Source:HGNC Symbol;Acc:HGNC:4883]					
-	505	404	705	185	202	199
3.390744002	2.186876383	4.009594782	1.098201054			
1.080734159	1.140533441					
ENSG00000069020	539.1441409	522.8004434	464.4542477			
1216.544227	923.9123361	1054.806683	508.7996107			
1065.087749	-1.065925215	2.43E-09	1.44E-07	MAST4		
5	66596361	67169595	+	14675		
protein_coding	microtubule associated serine/threonine kinase family					
member 4 [Source:HGNC Symbol;Acc:HGNC:19037]	-			466	564	
475	1211	1011	1075	1.736610888	1.694474166	
1.49940155	3.989948129	3.002144856	3.419608518			
ENSG00000182551	1596.607112	1624.94535	1801.104683			
843.8457065	866.3391638	988.0840281	1674.219048			
899.4229661	0.896570824	2.67E-09	1.58E-07	ADI1		
2	3497361	3519736	-	5560	protein_coding	
acireductone dioxxygenase 1 [Source:HGNC Symbol;Acc:HGNC:30576]	-					
1380	1753	1842	840	948	1007	13.57372379
13.90084121	15.3467808	7.304755952	7.430056966			
8.454748918						
ENSG00000085117	1797.918444	2004.995318	2765.213921			
651.9712661	1172.482223	881.1315365	2189.375894			
901.8616751	1.279302839	2.80E-09	1.65E-07	CD82		
11	44564427	44620363	+	4054		
protein_coding	CD82 molecule [Source:HGNC Symbol;Acc:HGNC:6210]					
-	1554	2163	2828	649	1283	898
20.96341263	23.52375963	32.3145503	7.740377983			
13.79118263	10.34043069					
ENSG00000118515	666.4099252	659.9892123	350.051833			
1251.704465	1559.044951	1413.931564	558.8169902			
1408.226993	-1.334108432	3.02E-09	1.78E-07	SGK1		
6	134169246	134318112	-	9992		
protein_coding	serum/glucocorticoid regulated kinase 1 [Source:HGNC					
Symbol;Acc:HGNC:10810]	-	576	712	358	1246	1706
1441	3.152570235	3.141676954	1.659713235			
6.029299165	7.440210095	6.732209018				
ENSG00000148841	2072.118361	2768.803058	2209.824421			

4454.299836	5096.596536	3869.914009	2350.248613	
4473.603461	-0.928335803	3.36E-09	1.97E-07	ITPRIP
10	104309698	104338448	-	7279
protein_coding	"inositol 1,4,5-trisphosphate receptor interacting protein [Source:HGNC Symbol;Acc:HGNC:29370]"			
2260	4434	5577	3944	13.45608058
	14.38265873	29.45270489	33.38777844	18.09245334
				25.29363358
ENSG00000141753	2102.199365	2584.339781	4878.236298	
612.7927154	541.9189073	697.6442343	3188.258481	
617.4519524	2.368489883	3.39E-09	1.98E-07	IGFBP4
17	40443461	40457731	+	2200
protein_coding	insulin like growth factor binding protein 4 [Source:HGNC Symbol;Acc:HGNC:5473]			
610	593	711	45.16759423	55.8732645
105.0493281	13.40628262	11.7460166	15.08665488	
ENSG00000152952	8029.314029	4962.896408	6472.047717	
3051.908639	3177.490794	3578.493	6488.086051	
3269.297477	0.988613844	3.52E-09	2.04E-07	PL0D2
3	146069440	146163653	-	7646
protein_coding	"procollagen-lysine,2-oxoglutarate 5-dioxygenase 2 [Source:HGNC Symbol;Acc:HGNC:9082]"			
3038	3477	3647	49.63864175	30.872943
40.10149312	19.2112088	19.81659323	22.26627177	
ENSG00000119865	922.0984555	940.855408	1057.977886	
391.7855066	492.5704739	506.307208	973.6439166	
463.5543962	1.070484533	3.53E-09	2.05E-07	CNRIP1
2	68284171	68320051	-	3548
protein_coding	cannabinoid receptor interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:24546]			
390	539	516	12.28483769	12.61294172
14.1268751	5.314742312	6.620087836	6.789098759	
ENSG00000132510	470.883402	538.5586128	554.411702	
1226.590009	950.4142725	1053.825468	521.2845723	
1076.94325	-1.045821131	3.56E-09	2.05E-07	KDM6B
17	7839904	7854796	+	7258
demethylase 6B	[Source:HGNC Symbol;Acc:HGNC:29012]			protein_coding
581	567	1221	1040	1074
3.529336979	3.618833074	8.133920373	6.244173663	lysine
6.907698176				407
ENSG00000122952	1476.283098	1561.912672	2123.77816	
821.7449856	738.398781	915.4740797	1720.657977	
825.2059487	1.060558716	3.58E-09	2.06E-07	ZWINT
10	56357228	56361275	-	2378
protein_coding	ZW10 interacting kinetochore protein [Source:HGNC Symbol;Acc:HGNC:13195]			
933	29.34496101	31.24079038	42.31072104	
16.63193082	14.80669424	18.3153756		
ENSG00000100526	443.1163218	495.9188604	583.7456544	
122.5585431	233.9481286	132.4640951	507.5936122	
162.9902556	1.637467853	3.83E-09	2.19E-07	CDKN3

14	54396849	54420218	+	1836	
protein_coding	cyclin dependent kinase inhibitor 3 [Source:HGNC				
Symbol;Acc:HGNC:1791]	-	383	535	597	122 256
135	11.40829676	12.84739459		15.06274452	
3.212834616	6.076113618	3.432472982			
ENSG00000118523	974.161731	1308.855011		1476.475608	
543.4768181	424.944843	641.7149497		1253.164117	
536.7122036	1.224286358	3.96E-09		2.25E-07	CTGF
6	131948176	131951373	-	2339	
protein_coding	connective tissue growth factor [Source:HGNC				
Symbol;Acc:HGNC:2500]	-	842	1412	1510	541 465
654	19.68686587	26.6157331		29.90537009	
11.18325582	8.663259606	13.05249581			
ENSG00000166598	11162.36625	8740.222307		12946.05103	
5045.996409	5125.840052	6662.453377		10949.54653	
5611.429946	0.964414658	3.96E-09		2.25E-07	
HSP90B1 12	103930107	103953645	+	4695	
protein_coding	heat shock protein 90 beta family member 1				
[Source:HGNC Symbol;Acc:HGNC:12028]	-		9648	9429	13240
5023	5609	6790	112.3819105	88.54499079	
130.6335847	51.72837052	52.06051274	67.5118818		
ENSG00000004700	1698.41974	1429.358659	1461.808632		
824.7587203	730.1740421	860.5260106	1529.862344		
805.1529243	0.925881565	4.17E-09	2.36E-07		RECQL
12	21468911	21501669	-	3778	
protein_coding	RecQ like helicase [Source:HGNC Symbol;Acc:HGNC:9948]				
-	1468	1542	1495	821	799 877
21.24999415	17.99518758	18.33081164	10.50708922		
9.216020316	10.83636627				
ENSG00000105373	4192.829113	5867.600722	4755.033698		
8504.759228	8526.312656	10614.78949	4938.487844		
9215.287125	-0.899740449	4.50E-09	2.54E-07		NOP53
19	47745522	47757058	+	5341	
protein_coding	NOP53 ribosome biogenesis factor [Source:HGNC				
Symbol;Acc:HGNC:4333]	-	3624	6330	4863	8466 9330
10818	37.10738274	52.25346447	42.17782178		
76.64024822	76.12330991	94.55193802			
ENSG00000215030	3118.011716	2812.369761	2712.412806		
4576.85838	5142.28953	4771.651071	2880.931428		
4830.266327	-0.745841556	4.62E-09	2.60E-07		
RPL13P12	17	17383377	17384012	-	636
processed_pseudogene	ribosomal protein L13 pseudogene 12				
[Source:HGNC Symbol;Acc:HGNC:35701]	-		2695	3034	2774
4556	5627	4863	231.7375262	210.3257367	
202.0467164	346.360068	385.5479491	356.9383319		
ENSG00000185480	592.364378	498.6997138	503.5661843		
248.1308208	212.9293514	204.092828	531.5434254		
221.7176668	1.261142525	4.74E-09	2.65E-07		PARPBP
12	102120185	102197520	+	4745	
protein_coding	PARP1 binding protein [Source:HGNC				

Symbol;Acc:HGNC:26074]	-	512	538	515	247	233
208	5.90103862	4.998964088		5.027747608		
2.516876774	2.139825221	2.046318139				
ENSG00000168036	12982.26696	12171.79543		13389.97151		
7395.704871	8406.597012	8142.126381		12848.0113		
7981.476088	0.686768347	5.19E-09		2.90E-07		CTNNB1
3	41194741	41260096		+	11927	
protein_coding	catenin beta 1	[Source:HGNC Symbol;Acc:HGNC:2514]				
-	11221 13131	13694 7362		9199 8298		
51.4511464	48.54008584	53.18651813		29.84460329		
33.60996013	32.47792294					
ENSG00000069275	16178.95207	13531.63275		18993.73423		
9338.559152	9635.738547	8504.194907		16234.77302		
9159.497536	0.825719606	5.82E-09		3.24E-07		NUCKS1
1	205712819	205750276		-	6546	
protein_coding	nuclear casein kinase and cyclin dependent kinase					
substrate 1	[Source:HGNC Symbol;Acc:HGNC:29923]					-
19425	9296 10544	8667 116.8288568		98.3221386		14598
	137.4635269	68.6627717		70.19206093		61.80716611
ENSG00000104142	1045.893355	940.855408		1099.04542		
1711.80129	2143.915272	1880.990151		1028.598061		
1912.235571	-0.894938968	5.96E-09		3.30E-07		VPS18
15	40894430	40903975		+	4049	
protein_coding	"VPS18, CORVET/HOPS core subunit	[Source:HGNC				
Symbol;Acc:HGNC:15972]"	-	904 1015		1124 1704		2346
1917	12.20999164	11.05228877		12.85940843		
20.34806096	25.24868876	22.10142989				
ENSG00000196950	1000.771849	605.299095		739.2156026		
323.4741875	333.5588553	313.0077507		781.7621824		
323.3469312	1.272430665	6.02E-09		3.32E-07		
SLC39A10	2 195575977	195737702		+		6917
protein_coding	solute carrier family 39 member 10					
[Source:HGNC Symbol;Acc:HGNC:20861]	-	865		653		756
322	365 319	6.839006941		4.162261516		
5.062983075	2.25081247	2.299501443		2.152875638		
ENSG00000176890	1251.832533	1376.522444		1477.453407		
618.8201848	799.6273927	673.1138464		1368.602795		
697.1871413	0.972938776	6.13E-09		3.37E-07		TYMS
18	657604 673578	+	2470	protein_coding		
thymidylate synthetase	[Source:HGNC Symbol;Acc:HGNC:12441]					-
1082	1485 1511	616 875		686 23.9565911		
	26.5071758	28.3380503		12.0582692		15.43724147
	12.96502022					
ENSG00000106049	969.5338842	1161.469779		1153.802131		
510.3257368	554.7129456	593.6353893		1094.935265		
552.8913572	0.986202337	6.27E-09		3.44E-07		HIBADH
7	27525442	27662995		-	2323	
protein_coding	3-hydroxyisobutyrate dehydrogenase	[Source:HGNC				
Symbol;Acc:HGNC:4907]	-	838 1253		1180 508		607
605	19.72829356	23.78131246		23.53072202		

10.57342573	11.38670525	12.15772178			
ENSG00000142173	42749.73392	28062.51884	46788.63201		
15571.96702	18141.94629	22730.83872	39200.29492		
18814.91734	1.058969884	6.67E-09	3.64E-07		COL6A2
21	46098097	46132849	+	5386	
protein_coding	collagen type VI alpha 2 chain	[Source:HGNC			
Symbol;Acc:HGNC:2212]	-	36950 30274	47851 15501		19852
23166	375.1827017	247.8206065	411.5542822		
139.153644	160.6188511	200.7847567			
ENSG00000166963	930.1971873	890.8000464	794.9501123		
2173.907272	1450.295625	1708.296219	871.9824487		
1777.499706	-1.027524529	6.74E-09	3.66E-07		MAP1A
15	43510958	43531620	+	10629	
protein_coding	microtubule associated protein 1A	[Source:HGNC			
Symbol;Acc:HGNC:6835]	-	804 961	813 2164		1587
1741	4.136741226	3.98625373	3.543240198		
9.843874447	6.506435329	7.646318777			
ENSG00000143870	3307.753431	3497.386654	4241.689529		
1827.327786	1776.543602	2299.969178	3682.276538		
1967.946855	0.904091468	6.79E-09	3.68E-07		PDIA6
2	10783391	10837977	-	4101	
protein_coding	protein disulfide isomerase family A member 6	[Source:HGNC			
Symbol;Acc:HGNC:30168]	-		2859 3773		4338
1819	1944 2344	38.12581172	40.56308652		
49.00069436	21.44589356	20.65689724	26.68172317		
ENSG00000163041	4226.381001	4003.501977	4171.288043		
2327.60774	2608.15609	2587.465325	4133.723674		
2507.743052	0.720918873	7.06E-09	3.81E-07		H3F3A
1	226061851	226072001	+	3146	
protein_coding	H3 histone family member 3A	[Source:HGNC			
Symbol;Acc:HGNC:4764]	-	3653 4319	4266 2317		2854
2637	63.50174602	60.52829544	62.81517711		
35.6097178	39.53246073	39.12888272			
ENSG00000203760	355.1872344	409.7124043	505.5217812		
53.24264577	147.1314403	132.4640951	423.4738066		
110.9460604	1.931042558	7.21E-09	3.88E-07		CENPW
6	126340174	126348875	+	795	
protein_coding	centromere protein W	[Source:HGNC			
Symbol;Acc:HGNC:21488]	-	307 442	517 53		161
135	21.11864061	24.51258421	30.12491778		
3.223368499	8.825053464	7.927069679			
ENSG00000142230	4639.41632	4984.216284	5872.657287		
3092.091767	2879.572474	3069.242145	5165.429964		
3013.635462	0.777545344	7.33E-09	3.92E-07		SAE1
19	47113274	47210636	+	3396	
protein_coding	SUM01 activating enzyme subunit 1	[Source:HGNC			
Symbol;Acc:HGNC:30660]	-	4010 5377	6006 3078		3151
3128	64.57603919	69.80817958	81.92568892		
43.8230046	40.43331222	42.99768747			
ENSG00000122545	8390.286072	6969.745628	7873.232847		

4025.344936	5074.663899	4292.817898	7744.421516		
4464.275578	0.794548722	7.33E-09	3.92E-07	7-Sep	
7	35800932	35907105	+	10906	
protein_coding	septin 7 [Source:HGNC Symbol;Acc:HGNC:1717]				-
7252	7519	8052	4007	5553	4375
30.39684784	34.20115153	17.76458497	22.18813389		
18.72658559					
ENSG00000137573	319.3214225	178.9015702	356.8964219		
85.38914887	46.60685375	73.59116396	285.0398049		
68.52905553	2.057573461	7.40E-09	3.94E-07	SULF1	
8	69466624	69660915	+	9404	
protein_coding	sulfatase 1 [Source:HGNC Symbol;Acc:HGNC:20391]				-
276	193	365	85	51	75
0.904854283	1.797971071	0.437026248	0.23632853		
0.372301408					
ENSG00000091136	4167.375956	2717.820745	5668.297418		
1889.611636	1269.35137	1956.543746	4184.49804		
1705.168917	1.295238156	7.57E-09	4.02E-07	LAMB1	
7	107923799	108003255	-	8140	
protein_coding	laminin subunit beta 1 [Source:HGNC				
Symbol;Acc:HGNC:6486]	-	3602	2932	5797	1881
1994	24.19992479	15.88084178	32.98992675	1389	
11.17289216	7.435949618	11.43527952			
ENSG00000137135	264.9442237	246.5690035	356.8964219		
75.34336665	99.61072664	90.27182779	289.469883		
88.40864036	1.710387871	7.77E-09	4.11E-07		
ARHGEF39	9	35658875	35675866	-	6496
protein_coding	Rho guanine nucleotide exchange factor 39				
[Source:HGNC Symbol;Acc:HGNC:25909]	-		229	266	365
75	109	92	1.92789856	1.805383955	
2.602850978	0.558234231	0.731204877	0.661131496		
ENSG00000087303	263.7872621	210.417909	363.7410108		
91.4166182	26.50193645	47.09834493	279.3153939		
55.00563319	2.347698859	8.25E-09	4.35E-07	NID2	
14	52004803	52069228	-	6392	
protein_coding	nidogen 2 [Source:HGNC Symbol;Acc:HGNC:13389]				-
228	227	372	91	29	48
1.565752266	2.695930111	0.688344493	0.197705991		
0.350550432					
ENSG00000153904	1033.166776	823.1326131	1087.311839		
471.1471861	437.7388813	508.2696391	981.2037428		
472.3852355	1.054424323	8.60E-09	4.52E-07	DDAH1	
1	85318481	85578363	-	4568	
protein_coding	dimethylarginine dimethylaminohydrolase 1 [Source:HGNC				
Symbol;Acc:HGNC:2715]	-	893	888	1112	469
518	10.691043	8.570789493	11.27667718	479	
4.964185069	4.569492995	5.293582676			
ENSG00000077097	5968.765285	4990.704942	5821.81177		
3636.573164	3077.880067	2867.111748	5593.760666		
3193.854993	0.808473514	9.31E-09	4.87E-07	TOP2B	

3	25597905	25664907	-	6044	
protein_coding	DNA topoisomerase II beta [Source:HGNC				
Symbol;Acc:HGNC:11990]	-	5159	5384	5954	3620 3368
2922	46.68053072	39.27485167	45.63382057		
28.95911805	24.28321723	22.56845307			
ENSG0000019549	1430.004631	1011.303695	1180.202688		
579.6416341	559.282245	632.8840101	1207.170338		
590.6026297	1.030759482	9.84E-09	5.13E-07		SNAI2
8	48917604	48921740	-	3392	
protein_coding	snail family transcriptional repressor 2 [Source:HGNC				
Symbol;Acc:HGNC:11094]	zf-C2H2	1236	1091	1207	577 612
645	19.9277075	14.18086965	16.48366889		
8.224721216	7.862382648	8.876666568			
ENSG0000064393	2080.217093	2022.607389	1955.596832		
3494.927634	3137.280959	3381.26868	2019.473772		
3337.825758	-0.724972292	1.12E-08	5.82E-07		HIPK2
7	139561570	139777778	-	15402	
protein_coding	homeodomain interacting protein kinase 2 [Source:HGNC				
Symbol;Acc:HGNC:14402]	-	1798	2182	2000	3479 3433
3446	6.38421172	6.246138144	6.015272862		
10.92140535	9.713042346	10.44441669			
ENSG00000184226	520.6327541	542.2664174	350.051833		
1239.649526	1118.56449	890.9436917	470.9836682		
1083.052569	-1.201682119	1.20E-08	6.24E-07		PCDH9
13	66302834	67230445	-	30944	
protein_coding	protocadherin 9 [Source:HGNC Symbol;Acc:HGNC:8661]				
-	450	585	358	1234	1224 908
0.795299618	0.833514908	0.535931187	1.928146036		
1.723707468	1.369794544				
ENSG00000123473	1509.834987	1339.444399	1675.946485		
572.6095866	824.3016094	802.6342949	1508.408624		
733.1818303	1.040342138	1.23E-08	6.38E-07		STIL
1	47250139	47314147	-	7291	
protein_coding	"STIL, centriolar assembly protein [Source:HGNC				
Symbol;Acc:HGNC:10879]"	-	1305	1445	1714	570 902
818	9.78854465	8.738053649	10.88995726		
3.779975404	5.391108061	5.23735776			
ENSG00000213949	497.4935206	232.6647364	489.8770065		
114.5219173	132.5096822	110.8773537	406.6784211		
119.3029844	1.767696377	1.30E-08	6.69E-07		ITGA1
5	52787896	52959210	+	18566	
protein_coding	integrin subunit alpha 1 [Source:HGNC				
Symbol;Acc:HGNC:6134]	-	430	251	501	114 145
113	1.26661557	0.596059115	1.250034028		
0.296884635	0.340336285	0.284122831			
ENSG00000166801	1899.731072	1631.434008	1759.059351		
1034.715569	988.7963874	800.6718639	1763.408143		
941.3946066	0.90519849	1.33E-08	6.81E-07		
FAM111A	11	59142748	59155039	+	7221
protein_coding	family with sequence similarity 111 member A				

[Source:HGNC Symbol;Acc:HGNC:24725]	-	1642	1760	1799
1030	1082	816	12.43570813	10.74606049
11.54080955	6.896696208	6.529629109	5.275199026	
ENSG00000268858	363.2859662	389.3194792	303.117509	
956.3584674	630.5633154	860.5260106	351.9076514	
815.8159311	-1.212701688	1.33E-08	6.81E-07	
AL118506.1	20	63861212	63864293	-
antisense	"novel transcript, antisense to ABHD16B"			
-	314	420	310	952
5.571751343	6.008286231	4.659416307	690	877
9.756073288	13.28351452		14.93501044	
ENSG00000116584	3652.52801	5574.684161	3886.748704	
8636.358975	8567.436351	7632.875526	4371.320292	
8278.890284	-0.92112111	1.34E-08	6.82E-07	
ARHGEF2 1	155946851	156007070	-	9135
protein_coding	Rho/Rac guanine nucleotide exchange factor 2			
[Source:HGNC Symbol;Acc:HGNC:682]	-	3157	6014	3975
8597	9375	7779	18.89995382	29.02610955
20.15723863	45.50295401	44.72201083	39.75220795	
ENSG00000093009	1096.799669	1274.557819	1369.895581	
632.8842799	680.8256087	657.414398	1247.084356	
657.0414289	0.924842735	1.35E-08	6.86E-07	CDC45
22	19479459	19520612	+	2846
protein_coding	cell division cycle 45 [Source:HGNC			
Symbol;Acc:HGNC:1739]	-	948	1375	1401
670	18.2166349	21.30108672	22.80371977	630
10.70303314	11.40722413	10.98970267		745
ENSG00000174442	1937.910807	1560.985721	1725.814205	
1054.807133	838.9233675	858.5635795	1741.570244	
917.43136	0.924595326	1.38E-08	6.96E-07	ZWILCH
15	66504959	66550128	+	4849
protein_coding	zwilch kinetochore protein [Source:HGNC			
Symbol;Acc:HGNC:25468]	-	1675	1684	1765
875	18.89110405	15.31171585	16.86145242	1050
10.46979869	8.249907798	8.423680859		918
ENSG00000076706	1885.847531	2641.810751	3327.44801	
1147.22833	1052.766579	1410.987917	2618.368764	
1203.660942	1.121674534	1.39E-08	6.99E-07	MCAM
11	119308529	119321521	-	7422
protein_coding	melanoma cell adhesion molecule [Source:HGNC			
Symbol;Acc:HGNC:6934]	-	1630	2850	3403
1438	12.01050773	16.93003547	21.23945922	1142
7.43954492	6.763790179	9.044487687		1152
ENSG00000160570	542.6150259	979.7873559	708.9038517	
1673.627318	1746.386226	1512.053116	743.7687445	
1644.02222	-1.142940579	1.45E-08	7.30E-07	DEDD2
19	42198598	42220140	-	2631
protein_coding	death effector domain containing 2 [Source:HGNC			
Symbol;Acc:HGNC:24450]	-	469	1057	725
1541	9.748700033	17.71283582	12.76496459	1666
				1911

30.61648757	31.65180174	27.3418456				
ENSG00000183087	2495.566335	2417.488575	3485.851354			
1414.446137	1060.991318	1567.001185	2799.635421			
1347.479546	1.055281112	1.49E-08	7.45E-07			GAS6
13	113820549	113864067	-	6006		
protein_coding	growth arrest specific 6 [Source:HGNC					
Symbol;Acc:HGNC:4168]	-	2157	2608	3565	1408	1161
1597	19.64081613	19.14503732	27.49645224			
11.3349222	8.423750393	12.41268185				
ENSG00000148773	5632.089437	5614.54306	11594.73362			
1505.862755	1201.725739	1813.28628	7613.788705			
1506.958258	2.337026035	1.52E-08	7.59E-07			MKI67
10	128096659	128126385	-	12807		
protein_coding	marker of proliferation Ki-67 [Source:HGNC					
Symbol;Acc:HGNC:7107]	-	4868	6057	11858	1499	1315
1848	20.7872899	20.85182743	42.89103164			
5.659205178	4.474421993	6.735976963				
ENSG00000204388	2570.768843	2867.98683	2254.803148			
6745.742761	3849.177804	5228.897503	2564.519607			
5274.606023	-1.040239056	1.53E-08	7.60E-07			HSPA1B
6	31827735	31830255	+	2521		
protein_coding	heat shock protein family A (Hsp70) member 1B					
[Source:HGNC Symbol;Acc:HGNC:5233]	-		2222	3094		2306
6715	4212	5329	48.20209582	54.11048439		
42.37297073	128.7877002	72.80716399	98.67767548			
ENSG00000154898	38.1797353	36.15109449	59.64570339			0
0	0	44.65884439	0	7.974179537		
1.63E-08	8.09E-07	CCDC144CP	17	20321164		
20403557	+	8145				
transcribed_processed_pseudogene	"coiled-coil domain containing					
144C, pseudogene [Source:HGNC Symbol;Acc:HGNC:29073]"	-					33
39	61	0	0	0	0.22157337	
0.211109354	0.346929478	0	0	0		
ENSG00000151725	1586.194457	1268.069161	1371.851178			
477.1746555	814.2491508	629.9403635	1408.704932			
640.4547232	1.136262199	1.77E-08	8.75E-07			CENPU
4	184694618	184734133	-	2953		
protein_coding	centromere protein U [Source:HGNC					
Symbol;Acc:HGNC:21348]	-	1371	1368	1403	475	891
642	25.39035193	20.42474337	22.00881601			
7.777345262	13.1483984	10.1488683				
ENSG00000139289	8466.645543	7781.754827	6301.910792			
13026.3658	14594.34224	11805.00391	7516.770387			
13141.90399	-0.806098384	1.85E-08	9.14E-07			PHLDA1
12	76025447	76033932	-	8069		
protein_coding	pleckstrin homology like domain family A member 1					
[Source:HGNC Symbol;Acc:HGNC:8933]	-		7318	8395		6445
12967	15970	12031	49.59836981	45.87065515		
37.0003355	77.69999876	86.24696045	69.60301416			
ENSG00000119574	694.1770054	831.4751733	727.4820216			

1380.290477	1350.684899	1382.532667	751.0447335	
1371.169348	-0.867718662	1.91E-08	9.41E-07	ZBTB45
19	58513530	58538911	- 3418	
protein_coding	zinc finger and BTB domain containing 45 [Source:HGNC			
Symbol;Acc:HGNC:23715]	ZBTB	600 897	744 1374	1478
1409	9.600059058	11.57055904	10.08331496	
19.4364028	18.84347403	19.24354016		
ENSG00000143815	2185.500605	2156.088354	2900.150102	
1320.015784	1292.197867	1324.640951	2413.91302	
1312.284867	0.879447039	1.96E-08	9.59E-07	LBR
1	225401502	225428925	- 5257	
protein_coding	lamin B receptor [Source:HGNC	Symbol;Acc:HGNC:6518]		
-	1889 2326	2966 1314	1414 1350	
19.65118271	19.50768307	26.13578961	12.08533253	
11.72114477	11.98786455			
ENSG00000128595	7914.774824	6950.279654	8345.509482	
4876.22269	4890.064204	4485.136139	7736.854653	
4750.474344	0.703612399	2.11E-08	1.03E-06	CALU
7	128739292	128771807	+ 4537	
protein_coding	calumenin [Source:HGNC	Symbol;Acc:HGNC:1458]		-
6841	7498 8535	4854 5351	4571 82.46041647	
	72.86359832 87.14394208	51.72877682	51.39546142	
	47.03146185			
ENSG00000231607	215.1948717	236.3725409	214.1378531	
33.15108133	73.10879019	59.85414669	221.9017552	
55.3713394	2.000200363	2.16E-08	1.05E-06	DLEU2
13	49982552	50125720	- 5103	
antisense	deleted in lymphocytic leukemia 2 [Source:HGNC			
Symbol;Acc:HGNC:13748]	-	186 255	219 33	80
61	1.993343244	2.203172845	1.988021159	
0.312672429	0.683160923	0.558020691		
ENSG00000104881	1126.880672	1881.710816	1375.762372	
2910.263109	2715.991556	3241.936076	1461.451287	
2956.06358	-1.015476771	2.22E-08	1.08E-06	
PPP1R13L	19 45379634	45406349	- 5032	
protein_coding	protein phosphatase 1 regulatory subunit 13			
like [Source:HGNC	Symbol;Acc:HGNC:18838]		- 974 2030	
1407	2897 2972	3304 10.58554048	17.78645359	
	12.95256919 27.83614431	25.73752434	30.65105603	
ENSG00000122566	23173.94236	25406.80382	29312.44092	
16385.67538	13498.62425	16272.47817	25964.3957	
15385.5926	0.755003385	2.23E-08	1.08E-06	
HNRNPA2B1	7 26173057	26201529	- 9267	
protein_coding	heterogeneous nuclear ribonucleoprotein A2/B1			
[Source:HGNC	Symbol;Acc:HGNC:5033]		- 20030 27409 29978	
16311	14771 16584	118.2051774	130.403121	
149.8531747	85.10256328	69.45912897	83.54032527	
ENSG00000101868	1055.149048	1095.656248	1088.289637	
564.5729608	503.5367925	628.959148	1079.698311	
565.6896337	0.932961081	2.26E-08	1.09E-06	POLA1

	X	24693919	24996986	+	6336	
protein_coding	"DNA polymerase alpha 1, catalytic subunit [Source:HGNC Symbol;Acc:HGNC:9173]"					
			-	912	1182	1113
	562	551	641	7.871806002	8.225006805	
8.137339797		4.288667369		3.789614453	4.722684102	
ENSG00000203805		500.9644056		225.2491272	374.4967934	
79.36167954		30.15737595		116.7646468	366.9034421	
75.42790077		2.283392488		2.29E-08	1.10E-06	PLPP4
	10	120456954		120589855	+	1785
protein_coding	phospholipid phosphatase 4 [Source:HGNC Symbol;Acc:HGNC:23531]					
			-	433	243	383
	119	13.26613427		6.002083198	9.939465013	33
2.13988329		0.805627565		3.112108837		
ENSG00000115461		142.3062861		99.18377207	80.17947013	
282.2864804		319.8509571		444.4906303	107.2231761	
348.8760226		-1.706006096		2.39E-08	1.15E-06	IGFBP5
	2	216672105		216695525	-	6442
protein_coding	insulin like growth factor binding protein 5 [Source:HGNC Symbol;Acc:HGNC:5474]					
			-	123	107	82
	281	350	453	1.044188976	0.732313458	
0.589651744		2.109049709		2.367586863	3.282641966	
ENSG00000117906		2577.710613		2174.627376	2350.627392	
1258.736512		1502.385638		1136.247572	2367.655127	
1299.123241		0.865445367		2.43E-08	1.16E-06	RCN2
	15	76931619		76954392	+	10019
protein_coding	reticulocalbin 2 [Source:HGNC Symbol;Acc:HGNC:9935]					
			-	2228	2346	2404
				1253	1644	1158
12.16145459		10.32375262		11.11507871	6.046832114	
7.150493799		5.395481635				
ENSG00000179300		149.2480562		177.974619	301.1619122	
32.1465031		24.67421669		62.79779325	209.4615291	
39.87283768		2.39582265		2.51E-08	1.19E-06	RTL3
	X	78656069		78659328	-	2648
protein_coding	retrotransposon Gag like 3 [Source:HGNC Symbol;Acc:HGNC:22997]					
			-	129	192	308
	64	2.664197658		3.196812803	5.388094345	32
0.584296405		0.444328715		1.12825698		27
ENSG00000075426		1759.738709		1713.005708	2623.433151	
996.5415962		764.9007174		1086.20558	2032.059189	
949.2159646		1.098525186		2.57E-08	1.22E-06	FOSL2
	2	28392448		28417312	+	7157
protein_coding	"FOS like 2, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:3798]"					
			TF_bZIP	1521	1848	2683
	992	837	1107	11.62232216	11.38426267	
17.36569269		6.701651987		5.096277155	7.220422976	
ENSG00000137563		1989.974082		1776.965337	1782.526513	
673.0674088		1139.583267		864.4508727	1849.821977	
892.3671828		1.051013204		2.74E-08	1.29E-06	GGH
	8	63015079		63039171	-	3130
protein_coding	gamma-glutamyl hydrolase [Source:HGNC					

Symbol;Acc:HGNC:4248]	-	1720	1917	1823	670	1247
881	30.05237657	27.0029824		26.98017653		
10.34979342	17.36123892	13.13946271				
ENSG00000186815	1221.75153	1477.560119		1977.108397		
780.5572785	662.5484111	787.9160621		1558.806682		
743.6739173	1.06832556	2.76E-08		1.30E-06		TPCN1
12	113221050	113298585		+ 8728		
protein_coding	two pore segment channel 1 [Source:HGNC					
Symbol;Acc:HGNC:18182]	-	1056	1594	2022	777	725
803	6.616737313	8.052069921		10.73170855		
4.304349205	3.619777421	4.294838559				
ENSG00000102054	3006.943395	2849.447807		3055.620051		
1450.610953	1831.375194	1839.779099		2970.670418		
1707.255082	0.798906005	2.90E-08		1.37E-06		RBBP7
X	16839283	16870414		- 7392		
protein_coding	"RB binding protein 7, chromatin remodeling factor					
[Source:HGNC Symbol;Acc:HGNC:9890]"	-			2599	3074	3125
1444	2004 1875	19.22821786		18.33478674		
19.58350933	9.445097632	11.81392901		11.84091735		
ENSG00000210135	258.0024537	557.0976356		362.7632124		
1120.104718	858.1144249	1073.449778		392.6211006		
1017.222974	-1.371037488	2.94E-08		1.38E-06		MT-TN
MT	5657 5729	- 73		Mt_tRNA		
mitochondrially encoded tRNA asparagine [Source:HGNC						
Symbol;Acc:HGNC:7493]	-	223	601	371	1115	939
1094	167.0616305	362.9824017		235.4255021		
738.5046322	560.5331861	699.5850139				
ENSG00000071539	1566.526109	1540.592796		1648.56813		
873.9830532	965.9498904	723.1558378		1585.229012		
854.3629271	0.891534394	2.97E-08		1.39E-06		TRIP13
5	892643 919357	+ 3560		protein_coding		
thyroid hormone receptor interactor 13 [Source:HGNC						
Symbol;Acc:HGNC:12307]	-	1354	1662	1686	870	1057
737	20.80000211	20.58329884		21.93865649		
11.8159997	12.93848978	9.664146964				
ENSG00000147862	317.0074991	350.3875312		508.4551764		
149.6821551	141.648281	127.5580175		391.9500689		
139.6294845	1.489813873	2.98E-08		1.39E-06		NFIB
9	14081843	14398983		- 12765		
protein_coding	nuclear factor I B [Source:HGNC					
CTF/NFI	274 378	520 149		155 130		
1.173882035	1.305584359	1.887056834		0.564373568		
0.52913864	0.475410281					
ENSG00000173039	2493.252411	3481.628485		2914.817079		
5263.989883	5046.334243	5185.72402		2963.232658		
5165.349382	-0.801282712	3.03E-08		1.41E-06		RELA
11	65653596	65663094		- 5464		
protein_coding	"RELA proto-oncogene, NF-kB subunit [Source:HGNC					
Symbol;Acc:HGNC:9955]"	RHD	2155 3756		2981 5240		5522
5285	21.56906387	30.30741186		25.27282215		

46.36836824	44.03969569	45.15234774				
ENSG00000135636	67.10377719	106.5993812	69.42368755	0		
	10.05245865	2.943646558	81.04228198	4.33203507		
	4.202819519	3.14E-08	1.45E-06	DYSF	2	
	71453722	71686768	+	8386	protein_coding	
	dysferlin [Source:HGNC Symbol;Acc:HGNC:3097]			-	58	
	115	71	0	11	3	0.378240343
0.604612247	0.392198516	0	0.057160553	0.016699845		
ENSG00000225190	826.0706365	1016.865402	931.8418906			
1543.032149	1896.259246	1662.17909	924.9259762			
1700.490162	-0.878016839	3.15E-08	1.45E-06			
PLEKHM1	17	45435900	45490749	-	9233	
protein_coding	pleckstrin homology and RUN domain containing M1					
	[Source:HGNC Symbol;Acc:HGNC:29017]			-	714	1097
	1536	2075	1694	4.229120785	5.238389051	
4.781371856	8.043583909	9.793408346	8.564787777			
ENSG00000082898	6211.727237	5458.815268	6209.997741			
3872.649046	3674.630567	3633.441069	5960.180082			
3726.906894	0.677310497	3.26E-08	1.50E-06		XP01	
	2	61477849	61538626	-	11708	
protein_coding	exportin 1 [Source:HGNC Symbol;Acc:HGNC:12825]				-	
	5369	5889	6351	3855	4021	3703
	22.17648947	25.12822747	15.91999346	14.96614529		
	14.76444186					
ENSG00000146834	1528.346374	1956.793858	2165.823492			
3779.223271	3036.756373	3657.971457	1883.654575			
3491.317033	-0.889674661	3.38E-08	1.55E-06		MEPCE	
	7	100428790	100434126	+	3420	
protein_coding	methylphosphate capping enzyme [Source:HGNC					
	Symbol;Acc:HGNC:20247]			-	1321	2111
	3728	21.12376972	27.21423215	30.00199127		3323
53.18558024	42.34116789	50.88570941				
ENSG00000154096	422.2910116	454.206059	693.2590771			
136.6226382	193.738294	224.698354	523.2520492			
185.0197621	1.499880718	3.47E-08	1.59E-06		THY1	
	11	119417378	119424985	-	5925	
protein_coding	Thy-1 cell surface antigen [Source:HGNC					
	Symbol;Acc:HGNC:11801]			-	365	490
	229	3.368986126	3.646210046	5.543197294		212
1.109818015	1.559215358	1.80423525				
ENSG00000154133	726.5719323	977.0065025	732.3710137			
1301.933376	2011.40559	1818.192358	811.9831495			
1710.510441	-1.07446448	3.60E-08	1.64E-06		ROB04	
	11	124883691	124898500	-	7033	
protein_coding	roundabout guidance receptor 4 [Source:HGNC					
	Symbol;Acc:HGNC:17985]			-	628	1054
	1853	4.883303751	6.607451004	4.933369632		2201
8.909751689	13.63760235	12.29931254				
ENSG00000112186	399.1517781	355.9492381	398.9417538			
169.7737195	122.4572236	156.0132676	384.6809233			

149.4147369	1.365100733	3.70E-08	1.68E-06	CAP2
6	17393216	17557792	+	3637
protein_coding	cyclase associated actin cytoskeleton regulatory			
protein_2 [Source:HGNC Symbol;Acc:HGNC:20039]	-		345	384
408	169	134	159	5.187648081
	5.196600345	2.246697593	1.605536174	2.040797244
ENSG00000229689	570.3821061	533.9238571	352.0074298	
1190.425193	996.1072664	1008.689554	485.4377977	
1065.074004	-1.134315132	3.75E-08	1.70E-06	
AC009237.3	2	95525345	95532405	+
	transcribed_unprocessed_pseudogene			Ankyrin repeat domain-
containing protein pseudogene	-	493	576	360
	1090	1028	5.416100816	5.101542971
	11.50971777	9.541797673	9.640160359	3.350040553
ENSG00000137845	1836.098179	1522.053773	1996.664366	
1043.756773	822.4738897	972.3845798	1784.938773	
946.2050807	0.915759743	3.77E-08	1.71E-06	ADAM10
15	58588807	58749978	-	16168
protein_coding	ADAM metalloproteinase domain 10 [Source:HGNC			
Symbol;Acc:HGNC:188]	-	1587	1642	2042
	991	5.368035002	4.477656874	5.850620022
3.107137436	2.425743111	2.861299967		
ENSG00000188643	8328.967103	9085.048131	7252.330853	
12311.10611	14712.23017	13819.43938	8222.115363	
13614.25855	-0.727544555	3.81E-08	1.72E-06	
S100A16 1	153606886	153613145	-	1701
protein_coding	S100 calcium binding protein A16 [Source:HGNC			
Symbol;Acc:HGNC:20441]	-	7199	9801	7417
	14084	231.4528712	254.0387889	201.9883964
348.3455111	412.4327885	386.5162333		
ENSG00000203706	77.51643227	104.7454789	94.84644637	
8.036625776	11.88017841	15.69944831	92.36945252	
11.87208416	2.959667438	3.91E-08	1.76E-06	
SERTAD4-AS1	1	210231456	210234047	-
	antisense			SERTAD4 antisense RNA 1 [Source:HGNC
Symbol;Acc:HGNC:32019]	-	67	113	97
	16	3.649520459	4.962250551	4.475488827
0.385263167	0.564245673	0.743930399		
ENSG00000188610	285.7695339	369.8535052	551.4783067	
157.7187809	98.69686676	124.614371	402.3671153	
127.0100062	1.665600416	3.99E-08	1.79E-06	FAM72B
1	121167646	121185539	-	3033
protein_coding	family with sequence similarity 72 member B			
[Source:HGNC Symbol;Acc:HGNC:24805]	-		247	399
	157	108	127	4.453682525
8.614084933	2.502813326	1.551707799	1.954687548	
ENSG00000179750	189.7417148	420.8358179	439.0314889	
61.27927154	109.6631853	102.046414	349.8696739	
90.99629029	1.943195616	4.14E-08	1.85E-06	
APOBEC3B	22	38982347	38992804	+
				1896

protein_coding	apolipoprotein B mRNA editing enzyme catalytic						
subunit 3B [Source:HGNC Symbol;Acc:HGNC:17352]	-	164	454				
449	61	120	104	4.730425725	10.55726633		
10.9700969	1.555581317	2.758046035	2.560595879				
ENSG00000134243	1551.485607	1820.532041	2267.514527				
1015.628582	980.5716485	654.4707515	1879.844058				
883.5569941	1.089411728	4.37E-08	1.95E-06			SORT1	
1	109309568	109397951	-	9160			
protein_coding	sortilin 1 [Source:HGNC Symbol;Acc:HGNC:11186]				-		
1341	1964	2319	1011	1073	667	8.006229165	
9.453224411	11.72756182	5.336504726	5.104613281				
3.39919748							
ENSG00000038427	440.8023984	324.4328993	622.8575911				
113.5173391	120.6295038	201.1491815	462.6976296				
145.0986748	1.673227989	4.54E-08	2.02E-06			VCAN	
5	83471465	83582303	+	14831			
protein_coding	versican [Source:HGNC Symbol;Acc:HGNC:2464]				-		
381	350	637	113	132	205	1.404912425	
1.040474803	1.989626026	0.368391181	0.38784848				
0.645252153							
ENSG00000107438	1126.880672	1065.066861	1369.895581				
572.6095866	640.6157741	648.5834584	1187.281038				
620.6029397	0.935849757	4.61E-08	2.04E-06			PDLIM1	
10	95237572	95291024	-	2239			
protein_coding	PDZ and LIM domain 1 [Source:HGNC						
Symbol;Acc:HGNC:2067]	-	974	1149	1401	570	701	
661	23.79028123	22.62558896	28.98588051				
12.30897752	13.64339718	13.78140202					
ENSG00000129173	340.1467327	354.0953358	525.0777495				
166.7599849	133.4235421	79.47845708	406.4399393				
126.5539947	1.683890038	4.84E-08	2.14E-06			E2F8	
11	19224063	19241620	-	4140			
protein_coding	E2F transcription factor 8 [Source:HGNC						
Symbol;Acc:HGNC:24727]	E2F	294	382	537	166	146	
81	3.883664471	4.068150206	6.008642986				
1.938692648	1.536777921	0.913336289					
ENSG00000197363	274.1999171	327.2137527	310.9398963				
644.9392185	583.9564617	701.5690964	304.1178554				
643.4882589	-1.079954169	4.87E-08	2.14E-06			ZNF517	
8	144798876	144811169	+	5308			
protein_coding	zinc finger protein 517 [Source:HGNC						
Symbol;Acc:HGNC:27984]	zf-C2H2	237	353	318	642	639	
715	2.441811555	2.932093054	2.775227955				
5.847972617	5.246003086	6.288124958					
ENSG00000144057	505.5922523	239.1533943	638.5023658				
176.8057671	85.90282848	93.21547435	461.0826708				
118.6413566	1.959202241	5.10E-08	2.24E-06				
ST6GAL2 2	106801600	106887108	-	7708			
protein_coding	"ST6 beta-galactoside alpha-2,6-sialyltransferase 2						
[Source:HGNC Symbol;Acc:HGNC:10861]"	-	437	258	653			

176	94	95	3.100519333	1.475747166	
3.924406001	1.104007893		0.531428382	0.575344459	
ENSG00000173207	1876.591838		2415.634673	2275.336914	
1047.775086	1285.800848		1273.617744	2189.187808	
1202.397892	0.864689421		5.18E-08	2.27E-06	CKS1B
1	154974653		154979249	+ 2338	
protein_coding	CDC28 protein kinase regulatory subunit 1B				
[Source:HGNC Symbol;Acc:HGNC:19083]			-	1622 2606	2327
1043	1407	1298	37.94032579	49.14324866	
46.10566944	21.5695467		26.22455868	25.91649233	
ENSG00000131473	10987.66503		11129.90235	13073.16482	
7526.300039	6501.199168		7598.532983	11730.24407	
7208.677397	0.702498462		5.47E-08	2.39E-06	ACLY
17	41866908		41930542	- 5217	
protein_coding	ATP citrate lyase [Source:HGNC Symbol;Acc:HGNC:115]				
-	9497	12007	13370 7492	7114 7744	
99.5543667	101.4723298		118.7170309	69.43495342	
59.42259613	69.29318814				
ENSG00000106462	1118.78194		1196.693923	1364.028791	
652.9758443	713.7245643		610.3160531	1226.501551	
659.0054872	0.896266577		5.50E-08	2.39E-06	EZH2
7	148807383		148884321	- 4522	
protein_coding	enhancer of zeste 2 polycomb repressive complex 2 subunit [Source:HGNC Symbol;Acc:HGNC:3527]				
1395	650	781	622	11.69474156	12.58721476
14.2904566	6.949987366		7.526257511	6.421047202	
ENSG00000121060	2346.318278		2723.382452	2366.272167	
4932.47907	3694.735484		4274.174803	2478.657632	
4300.463119	-0.79465757		5.89E-08	2.56E-06	TRIM25
17	56836387		56914080	- 9501	
protein_coding	tripartite motif containing 25 [Source:HGNC Symbol;Acc:HGNC:12932]				
4356	11.67329189		13.6337847	11.79908972	
24.98695821	18.54355604		21.4025041		
ENSG00000150093	12239.49757		10246.51791	12085.58842	
6955.699609	7149.125821		7601.476629	11523.86797	
7235.43402	0.671409455		5.91E-08	2.56E-06	ITGB1
10	32900319		33005792	- 6011	
protein_coding	integrin subunit beta 1 [Source:HGNC Symbol;Acc:HGNC:6153]				
7747	96.24819682		10579 11054	12360 6924	7823
55.69440232	56.71333676		81.07868386	95.2520209	
ENSG00000198836	3306.596469		60.16346821		
2024.225117	1998.611552		2934.727312	3400.782891	
1915.937851	0.746200525		1724.976883	3214.035558	
3	193593144		6.14E-08	2.65E-06	OPA1
protein_coding	"OPA1, mitochondrial dynamin like GTPase [Source:HGNC Symbol;Acc:HGNC:8140]"				
1758	17.2668212		2858 3166	3478 2015	2187
10.76295989	10.52841113		15.42056631	17.79866743	
			9.066096999		

ENSG00000179218	13833.79076	15382.75418	20156.33655	
7886.943621	8824.230976	10454.85136	16457.62716	
9055.341986	0.86195169	6.36E-08	2.74E-06	CALR
19	12938578	12944489	+ 2714	
protein_coding	calreticulin [Source:HGNC Symbol;Acc:HGNC:1455] -			
11957	16595	20614	7851 9656 10655	240.9389973
	269.5885056	351.8478359	139.8673513	155.0408039
	183.2692686			
ENSG00000166451	1084.07309	843.5255382	908.3747286	
446.0327306	514.503111	481.7768201	945.3244523	
480.7708872	0.974488711	6.51E-08	2.80E-06	CENPN
16	81006498	81033114	+ 3568	
protein_coding	centromere protein N [Source:HGNC			
Symbol;Acc:HGNC:30873]	-	937 910	929 444	563
491	14.36181929	11.24476813	12.0612779	
6.016713623	6.876099411	6.423957843		
ENSG00000104415	2200.541107	1392.280614	2617.56636	
513.3394715	183.6858354	294.3646558	2070.12936	
330.4633209	2.647476809	6.66E-08	2.85E-06	WISP1
8	133191039	133231690	+ 5190	
protein_coding	WNT1 inducible signaling pathway protein 1			
[Source:HGNC Symbol;Acc:HGNC:12769]	-		1902 1502	2677
511	201 300	20.04185277	12.75958451	
23.89370344	4.760523998	1.687669094	2.698360263	
ENSG00000146576	1641.728618	1894.688132	1589.900225	
3011.72551	2848.501238	2714.042127	1708.772325	
2858.089625	-0.741815864	6.96E-08	2.97E-06	
C7orf26 7	6590017 6608726	+ 2728	protein_coding	
chromosome 7 open reading frame 26	[Source:HGNC			
Symbol;Acc:HGNC:21702]	-	1419 2044	1626 2998	3117
2766	28.44675564	33.03470884	27.61077717	
53.1359536	49.79102125	47.3318899		
ENSG00000113645	439.6454368	582.1253165	794.9501123	
266.2132288	230.2926891	229.6044316	605.5736219	
242.0367832	1.324201647	7.31E-08	3.11E-06	WWC1
5	168291651	168472303	+ 10076	
protein_coding	WW and C2 domain containing 1 [Source:HGNC			
Symbol;Acc:HGNC:29435]	-	380 628	813 265	252
234	2.062481922	2.747928592	3.73770346	
1.271624631	1.089860668	1.084110959		
ENSG00000138166	1014.65539	1121.61088	792.0167171	
1752.988997	1938.2968	1749.507271	976.094329	
1813.59769	-0.893820805	7.49E-08	3.18E-06	DUSP5
10	110497838	110511544	+ 2615	
protein_coding	dual specificity phosphatase 5 [Source:HGNC			
Symbol;Acc:HGNC:3071]	-	877 1210	810 1745	2121
1783	18.34098319	20.40082052	14.34880658	
32.26450114	35.34496639	31.82919726		
ENSG00000131408	2024.682933	2417.488575	2157.023306	
3599.40377	3403.214183	3922.899647	2199.731605	

3641.8392	-0.726981703	7.91E-08	3.35E-06	NR1H2
19	50329653	50382982	+ 3753	
protein_coding	nuclear receptor subfamily 1 group H member 2			
[Source:HGNC Symbol;Acc:HGNC:7965]		THR-like	1750	2608
2206	3583	3724	3998	25.50082301
				30.63818122
	27.22885627	46.16038902	43.24040028	49.72906127
ENSG00000158792	376.0125446	701.7020136	531.9223384	
1144.214595	1346.115599	1114.66083	536.5456322	
1201.663675	-1.161568746	7.94E-08	3.35E-06	
SPATA2L 16	89696343	89701705	- 2482	
protein_coding	spermatogenesis associated 2 like			
[Source:HGNC Symbol;Acc:HGNC:28393]	-	325 757	544 1139	1473
1136	7.161043247	13.44708222	10.15312138	
22.18825577	25.86184875	21.36596881		
ENSG00000104738	9320.48326	8920.97778	9745.716814	
6017.42355	5580.028411	6400.468833	9329.059284	
5999.306932	0.63696265	8.79E-08	3.70E-06	MCM4
8	47960185	47978160	+ 6973	
protein_coding	minichromosome maintenance complex component 4			
[Source:HGNC Symbol;Acc:HGNC:6947]	-		8056 9624	9967
5990	6106	6523	63.18216525	60.8513065
66.21360731	41.53444137	38.15888995	43.6690505	
ENSG00000177606	3695.335592	3758.786876	3419.361061	
5607.555635	5599.219469	5619.42128	3624.49451	
5608.732128	-0.629915133	9.00E-08	3.78E-06	JUN
1	58780788	58784327	- 3540	
protein_coding	"Jun proto-oncogene, AP-1 transcription factor subunit			
[Source:HGNC Symbol;Acc:HGNC:6204]"		TF_bZIP	3194 4055	3497
5582	6127	5727	49.34309225	50.50350905
45.76092832	76.24086002	75.42289811	75.5213869	
ENSG00000160298	393.3669697	456.0599613	645.3469547	
207.947692	172.7195168	209.9801212	498.2579619	
196.8824433	1.340787175	9.29E-08	3.89E-06	
C21orf58	21	46300181	46323875	- 5315
protein_coding	chromosome 21 open reading frame 58			
[Source:HGNC Symbol;Acc:HGNC:1300]			340 492	660
207	189	214	3.498407222	4.08127437
5.752321123	1.883077929	1.54959117	1.879561499	
ENSG00000179776	214.03791	87.13340724	320.7178805	
27.12361199	22.84649694	53.96685357	207.2963992	
34.64565417	2.581812176	1.04E-07	4.34E-06	CDH5
16	66366622	66404786	+ 6082	
protein_coding	cadherin 5			
[Source:HGNC Symbol;Acc:HGNC:1764]				-
185	94	328	27 25	55
	0.681420815	2.498215414	0.214643907	1.663489352
	0.422145641			0.179123345
ENSG00000169744	337.8328093	231.7377852	441.9648841	
128.5860124	106.0077458	93.21547435	337.1784929	
109.2697442	1.625639732	1.07E-07	4.46E-06	LDB2
4	16501541	16898809	- 5586	

protein_coding	LIM domain binding 2 [Source:HGNC					
Symbol;Acc:HGNC:6533]	-	292	250	452	128	116
95	2.858752996	1.973208762		3.748348474		
1.107924726	0.904931395	0.793905316				
ENSG0000005893	4718.089714	4189.819157		5213.621155		
2712.361199	3001.115837	2927.94711		4707.176675		
2880.474716	0.70845329	1.15E-07		4.78E-06		LAMP2
X	120427827	120469365		-	5526	
protein_coding	lysosomal associated membrane protein 2 [Source:HGNC					
Symbol;Acc:HGNC:6501]	-	4078	4520	5332	2700	3284
2984	40.35813174	36.06297179		44.69734386		
23.62403623	25.89708401	25.20774367				
ENSG00000146648	3011.571242	1920.642764		3207.178805		
1423.487341	970.5191898	1438.461952		2713.130937		
1277.489494	1.086676468	1.15E-07		4.78E-06		EGFR
7	55019021	55211628		+	12521	
protein_coding	epidermal growth factor receptor [Source:HGNC					
Symbol;Acc:HGNC:3236]	-	2603	2072	3280	1417	1062
1466	11.36919892	7.295997785		12.13493024		
5.471823134	3.696103286	5.465639592				
ENSG00000087086	42860.80224	57238.306		33562.93063		
74266.4588	102422.6735	80546.01956		44554.01296		
85745.05061	-0.944492205	1.24E-07		5.13E-06		FTL
19	48965301	48966878		+	878	
protein_coding	ferritin light chain [Source:HGNC					
Symbol;Acc:HGNC:3999]	-	37046	61749	34325	73928	112077
82088	2307.498988	3100.768695		1811.000148		
4071.136442	5562.635196	4364.466803				
ENSG00000214357	118.0100909	119.5766972		304.0953074		
26.11903377	31.07123583	43.17348286		180.5606985		
33.45458415	2.433026554	1.25E-07		5.15E-06		
NEURL1B 5	172641266	172691540		+	6424	
protein_coding	neuralized E3 ubiquitin protein ligase 1B [Source:HGNC					
Symbol;Acc:HGNC:35422]	-	102	129	311	26	34
44	0.86833909	0.88535641		2.242628374		
0.19569018	0.230638594	0.319737209				
ENSG00000178295	1145.392059	848.1602939		968.020432		
535.4401923	469.723977	515.1381477		987.1909283		
506.767439	0.961504835	1.28E-07		5.25E-06		GEN1
2	17753858	17788941		+	11827	
protein_coding	"GEN1, Holliday junction 5' flap endonuclease					
[Source:HGNC Symbol;Acc:HGNC:26881]"	-			990	915	990
533	514	525	4.577784144	3.410990071		
3.877600419	2.178982933		1.893856723	2.072195577		
ENSG00000029993	1839.569064		2016.118731	2833.65981		
773.525231	1261.126631		1120.548123	2229.782535		
1051.733328	1.084030506		1.36E-07	5.56E-06		HMGB3
X	150980509		150990775	+	3967	
protein_coding	high mobility group box 3 [Source:HGNC					
Symbol;Acc:HGNC:5004]	HMG	1590	2175	2898	770	1380

1142	21.91944919	24.17302598	33.84064534	
9.384901984	15.15917211	13.4384735		
ENSG00000136492	1080.602205	894.5078509	1096.112025	
494.2524852	594.9227802	526.912734	1023.740694	
538.6959998	0.925603444	1.44E-07	5.88E-06	BRIP1
17	61681266	61863521	- 7991	
protein_coding	BRCA1 interacting protein C-terminal helicase 1			
[Source:HGNC Symbol;Acc:HGNC:20473]	-	934	965	1121
492	651 537	6.39205434	5.324270855	
6.498407444	2.976906461	3.550082581	3.137033748	
ENSG00000100109	1831.470333	1925.27752	1734.61439	
3390.451499	2789.100346	2915.191308	1830.454081	
3031.581051	-0.72772634	1.46E-07	5.97E-06	TFIP11
22	26491225	26512505	- 5436	
protein_coding	tuftelin interacting protein 11 [Source:HGNC			
Symbol;Acc:HGNC:17165]	-	1583 2077	1774 3375	3052
2971	15.92561379	16.84577541	15.11738325	
30.01895333	24.46603986	25.51345297		
ENSG00000162390	288.0834573	358.7300915	237.6050151	
681.1040345	631.4771753	617.1845617	294.806188	
643.2552572	-1.124835581	1.52E-07	6.19E-06	ACOT11
1	54542257	54639192	+ 9768	
protein_coding	acyl-CoA thioesterase 11 [Source:HGNC			
Symbol;Acc:HGNC:18156]	-	249 387	243 678	691
629	1.394082286	1.746784269	1.152399546	
3.356025557	3.082698096	3.006014218		
ENSG00000167778	477.8251721	660.9161634	549.5227099	
1148.232908	1131.358528	987.1028126	562.7546818	
1088.898083	-0.951050686	1.54E-07	6.26E-06	SPRYD3
12	53064316	53079420	- 3479	
protein_coding	SPRY domain containing 3 [Source:HGNC			
Symbol;Acc:HGNC:25920]	-	413 713	562 1143	1238
1006	6.492176759	9.035850963	7.483148137	
15.88521211	15.50689384	13.49862672		
ENSG00000122565	9613.194564	7860.545674	8064.881337	
4616.03693	5686.036157	5242.634521	8512.873858	
5181.569203	0.716080379	1.58E-07	6.38E-06	CBX3
7	26201162	26213356	+ 4641	
protein_coding	chromobox 3 [Source:HGNC Symbol;Acc:HGNC:1553]			-
8309	8480 8248	4595 6222	5343 97.91109403	
80.55977449	82.32647864	47.87129365	58.42208283	
53.74271983				
ENSG00000029534	247.5897986	232.6647364	399.9195522	
66.30216265	46.60685375	116.7646468	293.3913624	
76.55788774	1.939927162	1.59E-07	6.41E-06	ANK1
8	41653220	41896762	- 10797	
protein_coding	ankyrin 1 [Source:HGNC Symbol;Acc:HGNC:492]			-
214	251 409	66 51	119 1.083940353	
1.02495448	1.754779946	0.295557545	0.205838056	
0.514505351				

ENSG0000079459	4918.244083	4989.777991	6598.183712	
3362.323309	3108.037443	3265.485249	5502.068596	
3245.282	0.761747839	1.63E-07	6.57E-06	FDFT1
8	11795573	11839309	+ 5202	
protein_coding	farnesyl-diphosphate farnesyltransferase 1			
[Source:HGNC Symbol;Acc:HGNC:3629]	-	4251	5383	6748
3347	3401	3328	44.69052637	45.62343601
60.09068875	31.10903797	28.49015958	29.86475839	
ENSG00000130522	2414.579017	3771.764192	3180.778248	
4964.625573	6229.782784	6015.83235	3122.373819	
5736.746902	-0.877239848	1.69E-07	6.78E-06	JUND
19	18279760	18281622	- 1863	
protein_coding	"JunD proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:6206]"			
subunit	TF_bZIP	2087	4069	
3253	4942	6817	6131	61.263853
80.88605683	128.2599607	159.4553286	153.6259201	
ENSG00000141458	4012.343091	4521.667665	3231.623765	
6657.339877	6473.783372	6593.768291	3921.878174	
6574.963847	-0.745401212	1.79E-07	7.16E-06	NPC1
18	23506184	23586898	- 10102	
protein_coding	NPC intracellular cholesterol transporter 1			
[Source:HGNC Symbol;Acc:HGNC:7897]	-	3468	4878	3305
6627	7084	6720	18.77441603	21.28964353
15.15537041	31.71836722	30.55834193	31.05331328	
ENSG00000164754	10855.7714	10065.76244	10950.36446	
6821.086128	7441.560982	6509.383756	10623.9661	
6924.010288	0.617576117	1.84E-07	7.34E-06	RAD21
8	116845935	116874866	- 6192	
protein_coding	RAD21 cohesin complex component [Source:HGNC Symbol;Acc:HGNC:9811]			
Symbol;Acc:HGNC:9811]	-	9383	10859	11199
6634	82.87155374	77.32017769	83.78200567	6790
53.02003903	57.30758205	50.01388087		8143
ENSG00000174276	432.7036667	606.2260461	442.9426825	
1015.628582	1032.661661	902.7182779	493.9574651	
983.6695073	-0.992611356	1.96E-07	7.82E-06	ZNHIT2
11	65116403	65117708	- 1306	
protein_coding	zinc finger HIT-type containing 2 [Source:HGNC Symbol;Acc:HGNC:1177]			
Symbol;Acc:HGNC:1177]	-	374	654	453
920	15.66113157	22.07844738	16.06783935	1011
37.42908369	37.70455889	32.88445785		1130
ENSG00000111110	163.1315963	228.0299806	309.9620979	
21.09614266	48.4345735	78.49724156	233.7078916	
49.34265257	2.243827763	2.05E-07	8.13E-06	PPM1H
12	62643982	62935037	- 7063	
protein_coding	"protein phosphatase, Mg2+/Mn2+ dependent 1H [Source:HGNC Symbol;Acc:HGNC:18583]"			
[Source:HGNC Symbol;Acc:HGNC:18583]"	-	141	246	317
21	53	80	1.091753566	1.535606207
2.079086277	0.143757763	0.326998124	0.528745661	
ENSG00000174738	1442.73121	1114.195271	1378.695767	
717.2688505	741.1403606	719.2309758	1311.874083	

725.8800623	0.853281792	2.09E-07	8.29E-06	NR1D2
3	23945260	23980618	+ 5820	
protein_coding	nuclear receptor subfamily 1 group D member 2			
[Source:HGNC Symbol;Acc:HGNC:7963]		THR-like	1247	1202
1410	714	811	733	11.71758686
	11.22273179	5.931662651	6.07234541	9.105744098
ENSG00000170558	2148.477832	1712.078757	2232.313784	
1250.699886	1145.980286	1067.562485	2030.956791	
1154.747553	0.814393133	2.36E-07	9.32E-06	CDH2
18	27950966	28177446	- 4950	
protein_coding	cadherin 2 [Source:HGNC Symbol;Acc:HGNC:1759]			-
1857	1847	2283	1245	1254
	16.45112698	21.36501334	12.16089025	1088
	10.26052853			20.51641227
ENSG00000075711	2906.287729	2485.156009	2662.545087	
1551.068775	1768.318863	1589.569142	2684.662942	
1636.318926	0.713902275	2.37E-07	9.33E-06	DLG1
3	197042560	197299300	- 11001	
protein_coding	discs large MAGUK scaffold protein 1 [Source:HGNC Symbol;Acc:HGNC:2900]			
	-	2512	2681	2723
	1620	12.48769213	10.74480671	1544
				1935
6.786038946	7.664916047	6.874306403	11.46615828	
ENSG00000166670	26.61011854	50.05536161	47.91212239	
152.6958897	137.0789816	254.1348195	41.52586751	
181.3032303	-2.119526718	2.43E-07	9.55E-06	MMP10
11	102770503	102780628	- 1758	
protein_coding	matrix metalloproteinase 10 [Source:HGNC Symbol;Acc:HGNC:7156]			
	-	23	54	49
	259	0.715490181	1.354281192	152
				150
4.180477917	3.718184928	6.877441884	1.291158816	
ENSG00000133119	2857.695339	2454.566621	2401.47291	
1590.247325	1629.412161	1377.626589	2571.244957	
1532.428692	0.746299476	2.52E-07	9.87E-06	RFC3
13	33818049	33966558	+ 2874	
protein_coding	replication factor C subunit 3 [Source:HGNC Symbol;Acc:HGNC:9971]			
	-	2470	2648	2456
	1404	47.00076235	40.62236228	1583
				1783
26.631484	27.034801	22.80480588	39.58622187	
ENSG00000178913	2324.336007	2274.7381	1981.019591	
3464.790288	3861.057982	3343.001275	2193.364566	
3556.283182	-0.6974348	2.61E-07	1.02E-05	TAF7
5	141260225	141320821	- 2723	
protein_coding	TATA-box binding protein associated factor 7 [Source:HGNC Symbol;Acc:HGNC:11541]			
	-		2009	2454
	3449	4225	3407	2026
34.46626759	61.24163398	40.34846415	39.73387078	
ENSG00000087245	21981.11488	67.61416198	58.40775693	
11298.49126	11270.63387	15031.4397	23492.58475	
11503.83307	11270.63387	11942.37409	20168.37977	
	0.809943729	2.67E-07	1.04E-05	MMP2
16	55389700	55506691	+ 4933	

protein_coding	matrix metalloproteinase 2 [Source:HGNC					
Symbol;Acc:HGNC:7166]	-	18999	16216	24026	11247	12333
12171	210.6271445	144.9327652		225.6175158		
110.2368503	108.9472353	115.1757855				
ENSG00000122483	650.2124618	525.5812969		616.9908006		
287.3093715	281.4688422	309.0828886		597.5948531		
292.6203675	1.029631749	2.84E-07		1.10E-05		CCDC18
1	93179919	93278730		+	5633	
protein_coding	coiled-coil domain containing 18 [Source:HGNC					
Symbol;Acc:HGNC:30370]	-	562	567	631	286	308
315	5.456212511	4.437897483		5.189100283		
2.454864346	2.382701087	2.610458771				
ENSG00000242802	1423.062861	1992.944953		1592.83362		
3089.078033	2722.388575	2913.228877		1669.613811		
2908.231828	-0.799981319	2.84E-07		1.10E-05		AP5Z1
7	4775615	4794395	+	8396		
adaptor related	protein complex 5 subunit zeta 1 [Source:HGNC					
Symbol;Acc:HGNC:22197]	-	1230	2150	1629	3075	2979
2969	8.011750097	11.29015718		8.987752617		
17.70817914	15.46167966	16.50759493				
ENSG00000077152	1100.270554	996.4724764		937.7086811		
475.165499	586.6980413	570.0862168		1011.483904		
543.9832524	0.894147839	2.84E-07		1.10E-05		UBE2T
1	202331657	202341980		-	1652	
protein_coding	ubiquitin conjugating enzyme E2 T [Source:HGNC					
Symbol;Acc:HGNC:25009]	-	951	1075	959	473	642
581	31.4822082	28.69012096		26.89125184		
13.8437043	16.9349369	16.41769281				
ENSG00000152402	540.3011026	365.2187495		603.3016228		
246.1216644	84.9889686	118.7270779		502.9404916		
149.9459036	1.747279943	2.87E-07		1.11E-05		
GUCY1A2 11	106674012	107018524		-	16361	
protein_coding	guanylate cyclase 1 soluble subunit alpha 2					
[Source:HGNC	Symbol;Acc:HGNC:4684]	-		467	394	617
245	93	121		1.560995851	1.061745271	
1.74693914	0.724031492	0.247703248		0.345240361		
ENSG00000182220	1626.688116	1604.552425		1621.189774		
934.2577465	922.9984762	1047.938175		1617.476772		
968.3981325	0.740120754	2.92E-07		1.12E-05		
ATP6AP2 X	40579372	40606848		+	9560	
protein_coding	ATPase H+ transporting accessory protein 2					
[Source:HGNC	Symbol;Acc:HGNC:18305]	-		1406	1731	1658
930	1010	1068		8.043075421	7.983128751	
8.033949356	4.703555499	4.603859689		5.215061043		
ENSG00000101096	414.1922799	115.8688926		256.183185		
48.21975466	61.22861179	69.66630188		262.0814525		
59.70488944	2.131667392	3.06E-07		1.18E-05		NFATC2
20	51386957	51562831		-	8286	
protein_coding	nuclear factor of activated T cells 2 [Source:HGNC					
Symbol;Acc:HGNC:7776]	RHD	358	125	262	48	67

71	2.362831818	0.665118522	1.464734187	
0.280089949	0.352361517	0.399999507		
ENSG00000145833	3723.102672	3413.034101	3974.750562	
2556.651575	2027.855068	2123.350384	3703.629112	
2235.952342	0.728146946	3.10E-07	1.19E-05	DDX46
5	134758771	134855133	+ 9222	
protein_coding	DEAD-box helicase 46 [Source:HGNC			
Symbol;Acc:HGNC:18681]	-	3218 3682	4065 2545	2219
2164	19.08339478	17.60324057	20.41916074	
13.3433195	10.48553954	10.95413716		
ENSG00000176531	107.5974358	157.5816939	145.691964	
314.4329835	372.85483	357.1624491	136.9570313	
348.1500875	-1.343117653	3.16E-07	1.21E-05	PHLDB3
19	43474954	43504935	- 4553	
protein_coding	pleckstrin homology like domain family B member 3			
[Source:HGNC	Symbol;Acc:HGNC:30499]	-	93 170	149
313	408 364	1.117069029	1.646209975	
1.51597163	3.32389965	3.90500065	3.732069899	
ENSG00000161681	130.7366694	343.8988733	213.1600547	
635.8980145	560.1961049	739.8365017	229.2651991	
645.310207	-1.489459404	3.17E-07	1.21E-05	SHANK1
19	50661827	50719450	- 7567	
protein_coding	SH3 and multiple ankyrin repeat domains 1 [Source:HGNC			
Symbol;Acc:HGNC:15474]	-	113 371	218 633	613
754	0.816675303	2.16164381	1.334551124	
4.044652293	3.530167711	4.651506667		
ENSG00000070081	937.1389573	767.5155446	814.5060807	
437.9961048	477.034856	410.1480871	839.7201942	
441.7263493	0.925882402	3.20E-07	1.22E-05	NUCB2
11	17208153	17349980	+ 9025	
protein_coding	nucleobindin 2 [Source:HGNC			
Symbol;Acc:HGNC:8044]	-	810 828	833 436	522 418
4.908316068	4.044986571	4.27563129	2.335826037	
2.520472075	2.162096666			
ENSG00000178896	1151.176867	1258.799649	1055.044491	
1763.03478	1986.731374	2224.415583	1155.007003	
1991.393912	-0.785787937	3.27E-07	1.24E-05	EXOSC4
8	144078626	144080647	+ 1407	
protein_coding	exosome component 4 [Source:HGNC			
Symbol;Acc:HGNC:18189]	-	995 1358	1079 1755	2174
2267	38.67440991	42.55392565	35.52464961	
60.30929335	67.33239152	75.21482658		
ENSG00000099998	47.4354287	89.91426066	176.9815133	0
6.397019142	15.69944831	104.7770676	7.365489151	
3.829633887	3.30E-07	1.25E-05	GGT5 22	
24219654	24245142	-	6054	protein_coding
protein_coding	gamma-glutamyltransferase 5 [Source:HGNC			
Symbol;Acc:HGNC:4260]	-	41 97	181 0	7 16
0.3703703	0.70642047	1.384964412	0	0.050386503
0.123373988				

ENSG00000204291	68.26073887	172.4129122	145.691964		
24.10987733	27.41579632	15.69944831	128.7885384		
22.40837399	2.523783453	3.32E-07	1.25E-05		
COL15A1 9	98943179	99070792	+	6653	
protein_coding	collagen type XV alpha 1 chain [Source:HGNC				
Symbol;Acc:HGNC:2192]	-	59	186	149	24
16	0.484985999	1.232620479	1.037459617		30
0.174419459	0.196499898	0.112266064			
ENSG00000127022	12226.77099	10593.19764	14635.68669		
7249.03645	7214.923732	8215.717545	12485.21844		
7559.892576	0.723781882	3.40E-07	1.28E-05		CANX
5	179678628	179730925	+	6235	
protein_coding	calnexin [Source:HGNC Symbol;Acc:HGNC:1473]				-
10568	11428	14968	7216	7895	8373
80.81048846	111.2063976	55.95788394	55.17905701		
62.68890287					
ENSG00000099901	4913.616237	5353.142838	5847.234529		
3243.783079	3191.198692	3692.314	5371.331201		
3375.765257	0.670205361	3.42E-07	1.29E-05		RANBP1
22	20115938	20127357	+	4622	
protein_coding	RAN binding protein 1 [Source:HGNC				
Symbol;Acc:HGNC:9847]	-	4247	5775	5980	3229
3763	50.25126889	55.08787316	59.93406005		3492
33.77841914	32.92326454	38.00583801			
ENSG00000198899	36632.87754	40050.77794	47179.75138		
64055.92575	62096.77867	67991.36699	41287.80229		
64714.69047	-0.648357509	3.46E-07	1.30E-05		MT-
ATP6 MT	8527	9207	+	681	protein_coding
mitochondrially	encoded ATP synthase membrane subunit 6 [Source:HGNC				
Symbol;Acc:HGNC:7414]	-	31663	43207	48251	63764
69293	2542.726573	2797.312326	3282.174465		67950
4527.199758	4348.114249	4749.941798			
ENSG00000171425	342.460656	526.508248	425.342311		
953.3447327	741.1403606	1081.299502	431.4370717		
925.2615319	-1.098924272	3.48E-07	1.30E-05		ZNF581
19	55635459	55645622	+	1736	
protein_coding	zinc finger protein 581 [Source:HGNC				
Symbol;Acc:HGNC:25017]	zf-C2H2	296	568	435	949
1102	9.324739392	14.42555639	11.60758819		811
26.43125034	20.35774786	29.63315615			
ENSG00000108387	37.02277362	44.49365476	85.06846221		
2.009156444	4.569299387	2.943646558	55.52829686		
3.17403413	4.12071414	3.61E-07	1.35E-05		4-Sep
17	58520250	58540818	-	8012	
protein_coding	septin 4 [Source:HGNC Symbol;Acc:HGNC:9165]				-
32	48	87	2	5	3
0.264140049	0.503014805	0.012069528	0.027194912		
0.017479393					
ENSG00000115524	7952.954559	7261.735237	7593.5825		
5028.918579	4972.311593	5199.461038	7602.757432		

5066.89707	0.585360972	3.70E-07	1.37E-05	SF3B1
2	197389784	197435091	- 9164	
protein_coding	splicing factor 3b subunit 1 [Source:HGNC			
Symbol;Acc:HGNC:10768]	-	6874 7834	7766 5006	5441
5299	41.02222006	37.69054737	39.2567879	
26.41234621	25.87332496	26.99323122		
ENSG00000073008	2033.938626	2283.08066	2326.182432	
3609.449552	3261.565902	3710.957095	2214.400573	
3527.324183	-0.671320158	3.74E-07	1.39E-05	PVR
19	44643798	44663583	+ 3519	
protein_coding	poliovirus receptor [Source:HGNC			
Symbol;Acc:HGNC:9705]	-	1758 2463	2379 3593	3569 3782
27.3208569	30.85880492	31.31681819	49.36727629	
44.19629654	50.17048432			
ENSG00000073282	56.69112211	85.27950496	190.6706912	
15.06867333	14.62175804	16.68066383	110.8804394	
15.45703173	2.844686001	3.79E-07	1.40E-05	TP63
3	189631416	189897279	+ 7454	
protein_coding	tumor protein p63 [Source:HGNC			
Symbol;Acc:HGNC:15979]	-	P53 49 92	195 15	16 17
0.359502077	0.544167245	1.211846684	0.097297815	
0.09353824	0.106464684			
ENSG00000148848	1913.614612	1751.937656	1618.256379	
1038.733882	901.0658391	1126.435416	1761.269549	
1022.078379	0.785084393	4.28E-07	1.58E-05	ADAM12
10	126012381	126388455	- 9860	
protein_coding	ADAM metalloproteinase domain 12 [Source:HGNC			
Symbol;Acc:HGNC:190]	-	1148 9.173885239	8.451209101	7.7754143
5.070430571	4.357712735	5.435143425		
ENSG00000170540	3607.406505	3059.865716	4222.133561	
2070.435716	2344.050586	1973.22441	3629.801927	
2129.236904	0.769400197	4.78E-07	1.76E-05	
ARL6IP1 16	18791667	18801678	- 3666	
protein_coding	ADP ribosylation factor like GTPase 6 interacting			
protein 1 [Source:HGNC				
Symbol;Acc:HGNC:697]	-	4318 2061 2565	2011 46.51342962	39.69968142
54.56229548	27.1823342	30.48972495	25.60740946	
ENSG00000159111	1588.508381	1687.051076	1478.431205	
2590.807235	2697.714358	2369.63548	1584.663554	
2552.719024	-0.68784334	4.82E-07	1.77E-05	MRPL10
17	47823272	47831534	- 2764	
protein_coding	mitochondrial ribosomal protein L10 [Source:HGNC			
Symbol;Acc:HGNC:14055]	-	2415 27.16609476	29.03135506	25.34056001
45.11433083	46.54112878	40.78731643		
ENSG00000060339	2125.338598	2108.813845	2379.961345	
1392.345416	1379.014555	1348.190124	2204.704596	
1373.183365	0.68313161	4.92E-07	1.80E-05	CCAR1
10	68721012	68792377	+ 6059	

protein_coding	cell division cycle and apoptosis regulator 1						
[Source:HGNC Symbol;Acc:HGNC:24236]	-		1837	2275		2434	
1386	1509	1374	16.5807021	16.55443666			
18.60895892	11.06021309		10.85292708	10.58599821			
ENSG00000198853	608.5618414		814.7900528	618.9463974			
1388.327103	1106.684312		1350.152555	680.7660972			
1281.721323	-0.911822699		4.97E-07	1.82E-05		RUSC2	
9	35490127		35561898	+ 5682			
protein_coding	RUN and SH3 domain containing 2						
[Source:HGNC Symbol;Acc:HGNC:23625]	-		526	879	633	1382	1211
1376	5.062665428		6.820584656	5.160656305			
11.76001918	9.287557414		11.30480929				
ENSG00000162591	126.1088227		280.8661957	364.7188092			
72.32963199	24.67421669		67.70387084	257.2312759			
54.90257317	2.232071626		5.01E-07	1.83E-05		MEGF6	
1	3489920	3611495	- 7039	protein_coding			
multiple	EGF like domains 6						
[Source:HGNC Symbol;Acc:HGNC:3232]	-						
109	303	373	72	27	69	0.846857319	
1.897866331	2.454710738		0.494564282	0.16715193			
0.457598046							
ENSG00000115216	2909.758614		2797.538543	2779.880897			
4527.634047	4215.635615		4183.902975	2829.059352			
4309.057545	-0.607112655		5.07E-07	1.84E-05		NRBP1	
2	27427790		27442259	+ 5329			
protein_coding	nuclear receptor binding protein 1						
[Source:HGNC Symbol;Acc:HGNC:7993]	-		2515	3018	2843	4507	4613
4264	25.80993922		24.96936358	24.71346241			
40.89244275	37.72214083		37.35231398				
ENSG00000005022	11659.85977		10042.58866	12743.64676			
7788.494955	7158.26442		6949.949524	11482.03173			
7298.902967	0.653610237		5.07E-07	1.84E-05			
SLC25A5 X	119468400		119471319	+ 1500			
protein_coding	solute carrier family 25 member 5						
[Source:HGNC Symbol;Acc:HGNC:10991]	-		10078	10834	13033	7753	7833
7083	367.432703		318.4428706	402.4904609			
249.9077598	227.559759		220.4306689				
ENSG00000076003	3758.968484		3949.738811	3852.52576			
1978.014519	2693.145059		2324.499566	3853.744352			
2331.886381	0.724619506		5.18E-07	1.87E-05		MCM6	
2	135839626		135876426	- 4118			
protein_coding	minichromosome maintenance complex component 6						
[Source:HGNC Symbol;Acc:HGNC:6949]	-				3249	4261	3940
1969	2947	2369	43.14774285	45.62040641			
44.32128418	23.11854993		31.18547701	26.85497511			
ENSG00000196611	1124.566749		1126.245636	660.9917293			
1822.304895	1978.506635		1947.712806	970.6013714			
1916.174779	-0.981666114		5.44E-07	1.97E-05		MMP1	
11	102789920		102798160	- 1970			
protein_coding	matrix metalloproteinase 1						
[Source:HGNC Symbol;Acc:HGNC:7155]	-		972	1215	676	1814	2165

1985	26.98328072	27.19217896	15.89581961	
44.52175476	47.89059935	47.03707646		
ENSG00000163527	6097.188031	4797.899105	5790.522221	
3393.465234	3554.001063	3551.018965	5561.869786	
3499.495087	0.668240395	5.46E-07	1.97E-05	STT3B
3	31532638	31637622	+ 5012	
protein_coding	"STT3B, catalytic subunit of the oligosaccharyltransferase complex [Source:HGNC Symbol;Acc:HGNC:30611]"			-
3619	57.5034982	45.53204572	54.73432877	3889
32.5874066	33.81313812	33.7072682		
ENSG00000168385	8081.377305	5888.920598	6872.945067	
4218.223954	4516.295514	3946.448819	6947.747657	
4226.989429	0.716705032	5.50E-07	1.98E-05	2-Sep
2	241315100	241354027	+ 7378	
protein_coding	septin 2 [Source:HGNC Symbol;Acc:HGNC:7729]			-
6985	6353 7029	4199 4942	4022 51.77528192	
	37.96419211	44.13237992	27.51746611	29.18923331
	25.44775361			
ENSG00000185085	935.9819957	1153.127219	1229.092609	
1822.304895	1887.120647	1960.468608	1106.067275	
1889.964717	-0.772190571	5.58E-07	2.00E-05	INTS5
11	62646848	62653302	- 3285	
protein_coding	integrator complex subunit 5 [Source:HGNC Symbol;Acc:HGNC:29352]			-
1998	13.46814739	16.69625098	17.72565775	2065
26.69949981	27.39323226	28.39266418		
ENSG00000108582	2593.908077	2264.541637	3309.847639	
1628.421298	1557.217231	1474.766926	2722.765784	
1553.468485	0.809594326	5.66E-07	2.03E-05	CPD
17	30378905	30469989	+ 12532	
protein_coding	carboxypeptidase D [Source:HGNC Symbol;Acc:HGNC:2301]			-
-	2242 2443	3385 1621	1704 1503	
9.783853358	8.594825007	12.51240354	6.254085945	
5.925265322	5.598666911			
ENSG00000138346	719.6301623	512.6039809	557.3450972	
317.4467182	161.7531983	241.3790178	596.5264135	
240.1929781	1.312824715	5.67E-07	2.03E-05	DNA2
10	68414064	68472121	- 4867	
protein_coding	DNA replication helicase/nuclease 2 [Source:HGNC Symbol;Acc:HGNC:2939]			-
246	6.989140181	5.009538781	5.42520265	177
3.139257589	1.584785605	2.359498995		
ENSG00000149177	768.2225527	701.7020136	869.262792	
405.8496017	285.1242818	433.6972596	779.7291194	
374.890381	1.05716297	5.70E-07	2.03E-05	PTPRJ
11	47980558	48170841	+ 9620	
protein_coding	"protein tyrosine phosphatase, receptor type J [Source:HGNC Symbol;Acc:HGNC:9673]"			-
404	312 442	3.774745883	664 757	889
			3.469403126	

4.280841466	2.030521113	1.413312239	2.144831766	
ENSG0000075223	2062.862668	926.9511408	1315.13887	
659.0033136	600.4059395	640.7337342	1434.984226	
633.3809958	1.179159478	5.84E-07	2.08E-05	SEMA3C
7	80742538	80922359	- 6268	
protein_coding	semaphorin 3C [Source:HGNC Symbol;Acc:HGNC:10725]			
-	1783 1000	1345 656	657 653	
15.55668536	7.034042211	9.940214413	5.060297708	
4.56767273	4.863290692			
ENSG00000277443	3526.419188	3861.678453	6002.704477	
2242.218592	2495.751325	2378.466419	4463.600706	
2372.145445	0.91211312	5.97E-07	2.12E-05	MARCKS
6	113857362	113863471	+ 4275	
protein_coding	myristoylated alanine rich protein kinase C substrate			
[Source:HGNC Symbol;Acc:HGNC:6759]	-	3048	4166	6139
2232	2731 2424	38.99182443	42.96522639	
66.52179662	25.24406488	27.83839411	26.46930463	
ENSG00000164465	1037.794623	965.8830888	1101.001017	
534.4356141	652.4959525	498.4574839	1034.892909	
561.7963502	0.880828392	6.02E-07	2.13E-05	DCBLD1
6	117453817	117569858	+ 6819	
protein_coding	"discoidin, CUB and LCCL domain containing 1			
[Source:HGNC Symbol;Acc:HGNC:21479]"	-	897	1042	1126
532	714 508	7.193934269	6.737223991	
7.649272909	3.77217783	4.562849235	3.477675515	
ENSG00000121210	340.1467327	213.1987624	408.719738	
124.5676995	106.0077458	104.9900606	320.688411	
111.8551686	1.519266883	6.12E-07	2.16E-05	
TMEM131L	4 153466346	153636711	+ 6393	
protein_coding	transmembrane 131 like [Source:HGNC			
Symbol;Acc:HGNC:29146]	-	294 230	418 124	116
107	2.514996232	1.586196874	3.028823967	
0.937817208	0.790700262	0.781313105		
ENSG00000125845	27.76708022	43.56670362	21.51156516	
147.6729986	102.3523063	178.5812245	30.94844966	
142.8688432	-2.202285531	6.65E-07	2.34E-05	BMP2
20	6767664 6780280	+ 3601	protein_coding	bone
morphogenetic protein 2	[Source:HGNC Symbol;Acc:HGNC:1069]			
24	47 22	147 112	182	0.364487663
	0.575451458	0.283010152	1.973764938	1.355356363
	2.35936049			
ENSG00000149485	8223.683591	7778.973974	10076.21268	
5465.910106	4770.34856	5791.133996	8692.956748	
5342.464221	0.702406513	6.66E-07	2.34E-05	FADS1
11	61799625	61829318	- 10230	
protein_coding	fatty acid desaturase 1 [Source:HGNC			
Symbol;Acc:HGNC:3574]	-	7108 8392	10305 5441	5220
5902	37.99850394	36.16794216	46.66323227	
25.71605279	22.23583625	26.93206211		
ENSG00000100335	1906.672842	1915.081057	1820.660651	

2949.44166	2871.347735	2858.280808	1880.80485	
2893.023401	-0.621247704	7.22E-07	2.53E-05	MIEF1
22	39499432	39518132	+ 7555	
protein_coding	mitochondrial elongation factor 1			
[Source:HGNC Symbol;Acc:HGNC:25979]	-	1648 2066	1862 2936	3142
2913	11.92936842	12.05673753	11.41688598	
18.78982776	18.12300915	17.9991523		
ENSG00000085662	4927.499777	6279.167028	6876.856261	
3469.813179	3851.005523	3634.422284	6027.841022	
3651.746995	0.723194329	7.25E-07	2.54E-05	AKR1B1
7	134442350	134459284	- 3660	
protein_coding	aldo-keto reductase family 1 member B			
[Source:HGNC Symbol;Acc:HGNC:381]	-	4259 6774	7033 3454	4214
3704	63.63869532	81.6014855	89.01475233	
45.62915901	50.17322805	47.24283251		
ENSG00000178177	588.8934929	561.7323914	611.1240101	
246.1216644	345.4390337	234.5105092	587.2499648	
275.3570691	1.09164879	7.29E-07	2.54E-05	LCORL
4	17841199	18021876	- 14858	
protein_coding	ligand dependent nuclear receptor corepressor like			
[Source:HGNC Symbol;Acc:HGNC:30776]		HTH	509 606	625
245	378 239	1.873493286	1.798234097	
1.948597402	0.797272798	1.108638723	0.750902556	
ENSG00000168243	915.1566855	586.7600722	965.0870368	
315.4375617	417.633964	400.3359319	822.3345981	
377.8024859	1.121162097	7.46E-07	2.60E-05	GNG4
1	235547687	235650754	- 5401	
protein_coding	G protein subunit gamma 4			
[Source:HGNC Symbol;Acc:HGNC:4407]	-	791 633	987 314	457
408	8.009345328	5.167297792	8.465359989	
2.810973085	3.687233327	3.526403644		
ENSG00000189320	333.2049626	373.5613098	238.5828135	
858.9143798	559.282245	702.5503119	315.116362	
706.9156456	-1.165346226	7.57E-07	2.63E-05	
FAM180A 7	135728348	135748846	- 2526	
protein_coding	family with sequence similarity 180 member A			
[Source:HGNC Symbol;Acc:HGNC:33773]	-		288 403	244
855	612 716	6.235249759	7.03405335	
4.474648607	16.36567736	10.55787884	13.23200669	
ENSG00000164761	583.1086846	832.4021245	815.4838791	
289.3185279	336.3004349	420.9414579	743.664896	
348.8534736	1.092804458	8.08E-07	2.80E-05	
TNFRSF11B	8 118923557	118952200	-	2827
protein_coding	TNF receptor superfamily member 11b			
[Source:HGNC Symbol;Acc:HGNC:11909]	-		504 898	834
288	368 429	9.749883821	14.00504428	
13.66604033	4.925699299	5.672579719	7.08398315	
ENSG00000128050	8464.33162	8082.086997	8623.204232	
5129.376402	5887.08533	5732.261065	8389.874283	
5582.907599	0.587566378	8.39E-07	2.90E-05	PAICS

4	56435741	56464579	+	7517		
protein_coding	phosphoribosylaminoimidazole carboxylase and					
	phosphoribosylaminoimidazolesuccinocarboxamide synthase [Source:HGNC					
Symbol;Acc:HGNC:8587]	-	7316	8719	8819	5106	6442
5842	53.22600364	51.13945382		54.34720929		
32.8425959	37.34519814	36.27964579				
ENSG00000115159	1719.24505	1725.983024		2070.977045		
1227.594587	981.4855083	961.5912091		1838.73504		
1056.890435	0.799208807	8.63E-07		2.98E-05		GPD2
2	156435290	156613735	+	7155		
protein_coding	glycerol-3-phosphate dehydrogenase 2 [Source:HGNC					
Symbol;Acc:HGNC:4456]	-	1486	1862	2118	1222	1074
980	11.35805282	11.47371337		13.71256734		
8.257770034	6.541136936	6.393850441				
ENSG00000031691	813.344058	750.8304241		623.8353895		
374.7076768	405.7537856	349.3127249		729.3366239		
376.5913958	0.952863267	8.75E-07		3.01E-05		CENPQ
6	49463378	49493107	+	1733		
protein_coding	centromere protein Q [Source:HGNC					
Symbol;Acc:HGNC:21347]	-	703	810	638	373	444
356	22.18459349	20.60726776		17.05393376		
10.40666287	11.16459581	9.589533289				
ENSG00000131043	1764.366555	2100.471285		1595.767015		
3284.970786	2800.980524	2991.726119		1820.201619		
3025.892476	-0.73297454	8.98E-07		3.09E-05		AAR2
20	36236459	36270918	+	3101		
protein_coding	AAR2 splicing factor homolog [Source:HGNC					
Symbol;Acc:HGNC:15886]	-	1525	2266	1632	3270	3065
3049	26.89445761	32.21751929		24.37927824		
50.98556108	43.07123358	45.89883833				
ENSG00000145217	195.5265232	261.4002217		251.294193		
630.8751234	446.8774801	492.5701908		236.073646		
523.4409314	-1.14663378	9.29E-07		3.18E-05		
SLC26A1	4	979073	993440	-	4293	protein_coding
carrier family	26	member 1 [Source:HGNC				solute
Symbol;Acc:HGNC:10993]	-	169	282	257	628	489
169	282	257	628	489	502	2.152883498
2.896157511	2.773158489	7.072939964	4.963711921			
5.458695444						
ENSG00000144567	1722.715935	1751.010705		1643.679138		
2699.301683	2640.141186	2567.841014		1705.801926		
2635.761294	-0.627772375	9.30E-07		3.18E-05		
RETREG2	2	219176225	219185479	+	5689	
protein_coding	reticulophagy regulator family member 2 [Source:HGNC					
Symbol;Acc:HGNC:28450]	-	1489	1889	1681	2687	2889
2617	14.31375162	14.63962601		13.68781843		
22.8366791	22.12942888	21.47404331				
ENSG00000143799	7336.293986	7994.95359		9792.651138		
5230.838802	4480.654979	5580.172659		8374.632904		
5097.222147	0.716442599	9.40E-07		3.21E-05		PARP1
1	226360691	226408079	-	7169		

protein_coding	poly(ADP-ribose) polymerase 1	[Source:HGNC				
Symbol;Acc:HGNC:270]	Others	6341	8625	10015	5207	4903
5687	48.37198233	53.04378198		64.71349106		
35.11803552	29.80313229	37.03144711				
ENSG00000076242	1292.326192	1442.335975		1490.164786		
624.8476541	830.6986286	879.1691054		1408.275651		
778.2384627	0.855642007	9.48E-07		3.23E-05		MLH1
3	36993332	37050918		+	3532	
protein_coding	mutL homolog 1	[Source:HGNC				
Symbol;Acc:HGNC:7127]	-	1117	1556	1524	622	909
17.29526381	19.42329274	19.98787975		8.514730493		
11.21506477	11.84222615					
ENSG00000145715	2534.903031	2481.448204		2793.570075		
1509.881068	1548.992492	1793.66197		2603.307104		
1617.511843	0.686626692	9.60E-07		3.26E-05		RASA1
5	87267888	87391931		+	5232	
protein_coding	RAS p21 protein activator 1	[Source:HGNC				
Symbol;Acc:HGNC:9871]	-	2191	2677	2857	1503	1695
1828	22.90178615	22.55872727		25.29559859		
13.88968708	14.11759	16.31001994				
ENSG00000058804	3260.318002	2713.185989		3436.961433		
2045.32126	1753.697105	1955.56253		3136.821808		
1918.193632	0.709533846	9.67E-07		3.28E-05		NDC1
1	53765460	53838860		-	5135	
protein_coding	NDC1 transmembrane nucleoporin	[Source:HGNC				
Symbol;Acc:HGNC:25525]	-	2818	2927	3515	2036	1919
1993	30.01202182	25.13137395		31.70934982		
19.17072521	16.28520105	18.11810977				
ENSG00000164904	1420.748938	1585.086451		1856.839192		
879.0059443	886.4440811	1032.238726		1620.891527		
932.5629173	0.797895111	9.90E-07		3.35E-05		
ALDH7A1	5	126531200		126595418		17970
protein_coding	aldehyde dehydrogenase 7 family member A1	[Source:HGNC				
Symbol;Acc:HGNC:877]	-	1228	1710	1899	875	970
1052	3.737188488	4.195483247		4.895300355		
2.354296692	2.35224338	2.732836808				
ENSG00000173846	537.9871792	828.6943199		493.7882002		
1122.113874	1530.715295	1205.913873		620.1565664		
1286.247681	-1.051706155	9.92E-07		3.35E-05		PLK3
1	44800225	44805990		+	3479	
protein_coding	polo like kinase 3	[Source:HGNC				
Symbol;Acc:HGNC:2154]	-	465	894	505	1117	1675
7.309593688	11.32966446	6.724181155		15.5238687		
20.980652	16.49086703					
ENSG00000161381	281.1416872	46.34755704		260.0943787		
44.20144177	26.50193645	20.60552591		195.8612076		
30.43630137	2.6858776	9.99E-07		3.36E-05		PLXDC1
17	39063303	39154394		-	9277	
protein_coding	plexin domain containing 1	[Source:HGNC				
Symbol;Acc:HGNC:20945]	-	243	50	266	44	29

21	1.432496039	0.23762734	1.328239942	
0.229322325	0.13622256	0.105671476		
ENSG00000185215	699.9618138	914.900776	1268.204546	
452.0601999	474.2932764	449.3967079	961.0223785	
458.5833947	1.067985868	1.03E-06	3.45E-05	
TNFAIP2	14	103123442	103137439	+ 5029
protein_coding	TNF alpha induced protein 2 [Source:HGNC			
Symbol;Acc:HGNC:11895]	-	605	987	1297 450 519
458	6.579129756	8.653055216	11.94705316	
4.326454041	4.497221932	4.251379541		
ENSG00000140937	194.3695615	55.61706845	220.9824421	
12.05493866	5.483159264	39.24862078	156.9896907	
18.92890624	3.054445038	1.03E-06	3.46E-05	CDH11
16	64943753	65126112	-	13381
protein_coding	cadherin 11 [Source:HGNC Symbol;Acc:HGNC:1750] -			
168	60	226	12	6 40 0.686618378
0.197695433	0.782388258	0.043360461	0.019539852	
0.139546021				
ENSG00000254087	388.739123	406.9315508	641.435761	
193.8835969	197.3937335	215.8674143	479.0354783	
202.3815816	1.243659651	1.07E-06	3.58E-05	LYN
8	55879813	56014168	+ 6185	
protein_coding	"LYN proto-oncogene, Src family tyrosine kinase			
[Source:HGNC Symbol;Acc:HGNC:6735]"	-		336 439	656
193	216	220	2.970942771	3.129383398
4.913224301	1.508755345	1.52185279	1.660462274	
ENSG00000258807	18.51138681	17.61207168	16.62257307	
86.39372709	155.3561792	66.72265532	17.58201052	
102.8241872	-2.550166745	1.12E-06	3.72E-05	
AL359237.1	14	87710419	87872291	- 1845
lincRNA	novel transcript - 16 19 17			
86	170	68	0.474261996	0.45403694
0.426830069	2.253737325	4.015236667	1.720515455	
ENSG00000147853	1263.40215	1172.593193	1229.092609	
643.9346403	784.0917748	712.3624671	1221.695984	
713.4629608	0.775471447	1.13E-06	3.75E-05	AK3
9	4709559	4742043	-	4483
adenylate kinase 3	[Source:HGNC Symbol;Acc:HGNC:17376] - 1092			
1265	1257	641	858	726 13.32136145
12.44101302	12.98879895	6.913381245	8.340213087	
7.559862868				
ENSG00000065328	1404.551474	1471.071461	1442.252664	
952.3401545	773.1254563	845.8077778	1439.291866	
857.0911295	0.748245602	1.15E-06	3.81E-05	MCM10
10	13161554	13211104	+ 5454	
protein_coding	minichromosome maintenance 10 replication initiation			
factor	[Source:HGNC Symbol;Acc:HGNC:18043] - 1214 1587			
1475	948	846	862	12.17301805 12.82908702
12.5279307	8.404162094	6.759488401	7.377991797	
ENSG00000165672	3139.993988	3095.089859	2886.460925	

1857.465133	2092.739119	1935.93822	3040.514924	
1962.047491	0.631776136	1.15E-06	3.81E-05	PRDX3
10	119167703	119178833	- 3417	
protein_coding	peroxiredoxin 3	[Source:HGNC Symbol;Acc:HGNC:9354]		
-	2714 3339	2952 1849	2290 1973	
43.43697544	43.08294656	40.01970013	26.16333782	
29.20445468	26.95430525			
ENSG00000145040	273.0429555	155.7277917	342.2294457	
104.4761351	51.17615314	52.98563805	257.0000643	
69.54597543	1.886965719	1.16E-06	3.84E-05	UCN2
3	48561727	48563773	- 1481	
protein_coding	urocortin 2	[Source:HGNC Symbol;Acc:HGNC:18414] -		
236	168 350	104 56	54 8.714684266	
	5.001360746	10.9475123	3.395310506	1.647750933
	1.702098689			
ENSG00000166401	1691.47797	1672.219858	1181.180487	
2730.443607	2629.174867	2496.212282	1514.959438	
2618.610252	-0.789770686	1.25E-06	4.11E-05	
SERPINB8	18 63969925	64019779	+ 5868	
protein_coding	serpin family B member 8	[Source:HGNC Symbol;Acc:HGNC:8952] -		
	2544 13.62548532	1462 1804	1208 2718	2877
22.39548973	21.36526847	20.23825379	9.536286385	
ENSG00000204389	1876.591838	1779.74619	1211.492238	
4207.173594	2239.87056	3573.586922	1622.610089	
3340.210358	-1.041704109	1.28E-06	4.22E-05	HSPA1A
6	31815464	31817946	+ 2483	
protein_coding	heat shock protein family A (Hsp70) member 1A	[Source:HGNC Symbol;Acc:HGNC:5232] -		
	4188 2451 3642	35.72472078	1622 1920	1239
23.11516738	81.55135285	43.0155212	34.09247001	
ENSG00000196878	1096.799669	944.5632125	68.47140788	
574.618743	508.1060918	689.7945102	1680.835477	
590.8397817	1.070649782	689.7945102	1240.732786	
1	209614870	1.28E-06	4.22E-05	LAMB3
protein_coding	laminin subunit beta 3	[Source:HGNC Symbol;Acc:HGNC:6490] -		
	703 11.05898953	948 1019	1719 572	556
5.89942443	5.16827705	9.583420378	16.98598474	
ENSG00000267317	320.4783842	7.000253346		
632.8842799	620.5108568	335.556313	357.8742203	
632.6845776	-0.904069832	644.6585963	337.9696392	
AC027307.2	19 1457670	1458580 -	4.39E-05	
	"novel transcript, antisense to APC2"		911 antisense	
	366 630 679	657 16.62861602	- 277 362	
	18.61080524	33.43669849	17.5195986	
ENSG00000134352	3800.619105	32.47954937	33.666117	
2482.312787	2459.19693	3630.867619	4559.474015	
2526.993155	0.661547378	2639.469747	3996.986913	
5	55935095	1.36E-06	4.44E-05	IL6ST
		55994993	- 9292	

protein_coding	interleukin 6 signal transducer	[Source:HGNC					
Symbol;Acc:HGNC:6021]	-	3285	3917	4663	2471	2691	
2690	19.33396311	18.58567457		23.24655864			
12.85774359	12.62010866	13.51416181					
ENSG00000173706	1874.277915	1713.005708		3195.445224			
977.45461	969.6053299	1308.941503		2260.909616			
1085.333814	1.058938831	1.37E-06		4.47E-05		HEG1	
3	124965710	125055958		-	9925		
protein_coding	heart development protein with EGF like domains	1					
[Source:HGNC Symbol;Acc:HGNC:29227]	-	1620	1848	3268			
973	1061	1334	8.926458944	8.20928644			
15.25295497	4.740056751	4.65847175		6.274387691			
ENSG00000001036	1336.290735	1543.37365		2206.891025			
758.4565576	605.8890987	1047.938175		1695.51847			
804.0946104	1.076806794	1.42E-06		4.63E-05		FUCA2	
6	143494811	143511690		-	2793		
protein_coding	alpha-L-fucosidase 2	[Source:HGNC					
Symbol;Acc:HGNC:4008]	-	1155	1665	2257	755	663	
1068	22.61547747	26.28314071		37.4337279			
13.0700495	10.34430198	17.85033425					
ENSG00000140534	775.1643227	575.6366585		1053.088894			
429.959479	263.1916447	345.3878629		801.2966251			
346.1796622	1.211356236	1.42E-06		4.63E-05		TICRR	
15	89575482	89631056		+	8402		
protein_coding	TOPBP1 interacting checkpoint and replication						
regulator [Source:HGNC Symbol;Acc:HGNC:28704]	-	670	621				
1077	428	288	352	4.361007547	3.258688747		
5.937935583	2.46298807	1.493717291		1.955717051			
ENSG00000134910	4462.401183	3772.691143		5145.175266			
2848.983838	2367.810942	2851.4123		4460.089197			
2689.40236	0.729836593	1.43E-06		4.64E-05		STT3A	
11	125591712	125625215		+	7393		
protein_coding	"STT3A, catalytic subunit of the						
oligosaccharyltransferase complex [Source:HGNC Symbol;Acc:HGNC:6172]"	-	3857	4070	5262	2836	2591	2906
28.53143698	24.27211723	32.97103599		18.54755796			
15.27233017	18.34936077						
ENSG00000177565	4233.322771	3217.44741		4016.795894			
2488.340256	2405.279197	2020.322755		3822.522025			
2304.647403	0.729756169	1.44E-06		4.65E-05			
TBL1XR1 3	177019340	177228000		-	11603		
protein_coding	transducin beta like 1 X-linked receptor	1					
[Source:HGNC Symbol;Acc:HGNC:29529]	-	3659	3471	4108			
2477	2632	2059	17.24593838	13.1891947			
16.40070808	10.32183544	9.88494348		8.283847404			
ENSG00000169220	223.2936034	268.8158308		228.8048294			
442.0144177	489.8288943	578.9171565		240.3047545			
503.5868228	-1.066379332	1.44E-06		4.65E-05		RGS14	
5	177357837	177372601		+	3797		
protein_coding	regulator of G protein signaling	14	[Source:HGNC				

Symbol;Acc:HGNC:9996]	-	193	290	234	440	536
590	2.779786392	3.367374034		2.854813331		
5.602905477	6.151524957	7.253664263				
ENSG00000122591	2441.189136	2261.760784		2473.829993		
1436.546857	1542.595473	1605.26859		2392.259971		
1528.136973	0.646450872	1.48E-06		4.76E-05		
FAM126A 7	22889371	23014130		-	14499	
protein_coding	family with sequence similarity			126 member A		
[Source:HGNC Symbol;Acc:HGNC:24587]	-			2110	2440	2530
1430	1688	1636	7.958644725	7.419689555		
8.083229828	4.768691242	5.073328573		5.267339186		
ENSG00000106799	2265.330961	2665.911481		2577.476625		
1611.343468	1638.55076	1301.091779		2502.906356		
1516.995336	0.722552463	1.49E-06		4.81E-05		TGFBR1
9	99104038	99154192		+	6844	
protein_coding	transforming growth factor beta			receptor 1		
[Source:HGNC Symbol;Acc:HGNC:11772]	-			1958	2876	2636
1604	1793	1326	15.64578649	18.52733008		
17.84176689	11.33171334	11.41639236		9.044395787		
ENSG00000168487	1117.624979	821.2787108		1714.080624		
624.8476541	350.9221929	556.3491995		1217.661438		
510.7063489	1.25403166	1.52E-06		4.89E-05		BMP1
8	22164736	22212326		+	7471	
protein_coding	bone morphogenetic protein 1			[Source:HGNC		
Symbol;Acc:HGNC:1067]	-	966	886	1753	622	384
567	7.071199705	5.228642437		10.86940161		
4.02543543	2.239809517	3.542830365				
ENSG00000221955	573.8529912	499.6266649		393.0749633		
940.2852158	1122.219929	816.3713122		488.8515398		
959.6254858	-0.974254017	1.54E-06		4.93E-05		
SLC12A8 3	125082636	125212864		-	5586	
protein_coding	solute carrier family 12 member 8			[Source:HGNC		
Symbol;Acc:HGNC:15595]	-	496	539	402	936	1228
832	4.855963994	4.254238091		3.333708156		
8.101699558	9.579790976	6.952939185				
ENSG00000075420	2818.358642	2609.367461		2951.973418		
1752.988997	1868.843449	1802.492909		2793.233174		
1808.108452	0.627320553	1.55E-06		4.93E-05		FNDC3B
3	172039628	172401665		+	13270	
protein_coding	fibronectin type III domain containing 3B			[Source:HGNC		
Symbol;Acc:HGNC:24670]	-	2436	2815	3019	1745	2045
1837	10.03924548	9.352795408		10.53888453		
6.358076147	6.715540726	6.462257649				
ENSG00000108798	108.7543975	168.7051076		275.7391534		
16.07325155	60.31475191	32.38011214		184.3995528		
36.25603853	2.343456922	1.55E-06		4.93E-05		ABI3
17	49210227	49223225		+	2456	
protein_coding	ABI family member 3			[Source:HGNC		
Symbol;Acc:HGNC:29859]	-	94	182	282	16	66
33	2.093120368	3.267209502		5.318916857		

0.31498715	1.171046582	0.62723692				
ENSG00000115306	3137.680065	2915.261338	3838.836582			
2088.518124	1746.386226	2115.50066	3297.259328			
1983.468336	0.733399343	1.56E-06	4.95E-05		SPTBN1	
2	54456285	54671445	+	18504		
protein_coding	"spectrin beta, non-erythrocytic 1 [Source:HGNC					
Symbol;Acc:HGNC:11275]"	-	2712	3145	3926	2079	1911
2156	8.015281474	7.493573786	9.828497495			
5.432379305	4.500426414	5.439126664				
ENSG00000226950	811.0301347	805.5205414	957.2646494			
400.8267106	519.0724104	464.1149407	857.9384418			
461.3380206	0.894729994	1.56E-06	4.95E-05		DANCR	
4	52712404	52720351	+	2285		
processed_transcript	differentiation antagonizing non-protein					
coding RNA [Source:HGNC	Symbol;Acc:HGNC:28964]"	-	701	869		
979	399	568	473	16.77747214	16.76746969	
19.84718616	8.442827339	10.83230124	9.663200087			
ENSG00000284946	93.71389573	54.69011731	123.2026004			
14.06409511	15.53561792	14.71823279	90.53553783			
14.77264861	2.614172564	1.57E-06	4.97E-05			
AC068831.7	15	90966190	91022566	-	7148	
protein_coding	novel transcript		-	81	59	
126	14	17	15	0.619719537	0.363916231	
0.816560668	0.094698851	0.103638943	0.097960897			
ENSG00000226674	155.0328645	127.9192574	202.4042721			
60.27469332	31.07123583	26.49281903	161.7854647			
39.27958273	2.044475532	1.60E-06	5.08E-05		TEX41	
2	144667967	145262988	+	15056		
lincRNA	testis expressed 41 [Source:HGNC		Symbol;Acc:HGNC:48667]"	-		
134	138	207	60	34	27	0.486732006
0.404113574	0.636888189	0.192682761	0.098407434			
0.083714405						
ENSG00000173334	441.9593601	456.0599613	362.7632124			
755.442823	731.0879019	883.0939675	420.2608446			
789.8748975	-0.910449328	1.62E-06	5.11E-05		TRIB1	
8	125430321	125438405	+	4138		
protein_coding	tribbles pseudokinase 1 [Source:HGNC					
Symbol;Acc:HGNC:16891]"	-	382	492	371	752	800
900	5.048560782	5.242139506	4.153229012			
8.786756084	8.424770876	10.15308586				
ENSG00000006327	2704.976398	5157.556148	3771.368491			
6599.07434	7244.167248	8034.192673	3877.967012			
7292.478087	-0.910776026	1.63E-06	5.15E-05			
TNFRSF12A	16	3018445	3022383	+	1848	protein_coding
TNF receptor superfamily	member 12A [Source:HGNC					
Symbol;Acc:HGNC:18152]"	-	2338	5564	3857	6569	7927
8188	69.1890317	132.7452875	96.68300223			
171.8693805	186.9241821	206.8339867				
ENSG00000104313	321.6353458	324.4328993	466.4098445			
167.7645631	115.1463446	162.8817762	370.8260299			

148.5975613	1.320797831	1.64E-06	5.17E-05	EYA1
8	71197433	71592025	- 9418	
protein_coding	EYA transcriptional coactivator and phosphatase 1			
[Source:HGNC Symbol;Acc:HGNC:3519]	-	278	350 477	
167	126 166	1.614287272	1.638488193	
2.346184432	0.857351677	0.583002553	0.822802188	
ENSG00000128567	1684.5362	1790.869604	2624.410949	
1092.981106	1178.879242	1066.58127	2033.272251	
1112.813872	0.869757847	1.65E-06	5.19E-05	PODXL
7	131500262	131558217	- 6874	
protein_coding	podocalyxin like [Source:HGNC Symbol;Acc:HGNC:9171]			
-	1456 1932	2684 1088	1290 1087	
11.58368022	12.39171888	18.0873707	7.652803886	
8.177843219	7.381864211			
ENSG00000130724	1833.784256	2166.284816	1810.882667	
2881.130341	3115.348322	3168.344912	1936.983913	
3054.941192	-0.657081197	1.67E-06	5.22E-05	CHMP2A
19	58551566	58555124	- 2129	
protein_coding	charged multivesicular body protein 2A [Source:HGNC Symbol;Acc:HGNC:30216]			
-	-	1585 2337	1852 2868 3409	
3229	40.71442614	48.39684033	40.29654176	
65.13354291	69.77662149	70.80084148		
ENSG00000162490	255.6885303	53.76316617	234.6716199	
48.21975466	13.70789816	22.56795695	181.3744388	
28.16520326	2.689256132	1.70E-06	5.33E-05	DRAXIN
1	11691729	11725857	+ 7346	
protein_coding	dorsal inhibitory axon guidance protein [Source:HGNC Symbol;Acc:HGNC:25054]			
-	-	221 58	240 48 15	
23	1.645265771	0.348105614	1.513431516	
0.315930482	0.088981338	0.14615812		
ENSG00000175305	485.9239038	486.6493489	494.7659986	
190.8698622	272.3302435	236.4729402	489.1130838	
233.2243486	1.067606637	1.72E-06	5.36E-05	CCNE2
8	94879770	94896678	- 4397	
protein_coding	cyclin E2 [Source:HGNC Symbol;Acc:HGNC:1590]			
-	-	190 298	241 5.223811986	
420	525 506	5.264253515 5.330850547	2.089288202 2.953373653	
2.558624846				
ENSG00000176393	1170.845216	1459.021096	1779.593117	
721.2871634	783.1779149	888.0000451	1469.81981	
797.4883745	0.882563396	1.73E-06	5.40E-05	RNPEP
1	201982372	202006147	+ 3479	
protein_coding	arginyl aminopeptidase [Source:HGNC Symbol;Acc:HGNC:10078]			
-	-	1012 1574	1820 718 857	
905	15.90819099	19.94730633	24.23368258	
9.978637177	10.73457837	12.1433968		
ENSG00000152818	888.5465669	817.5709062	1203.66985	
378.7259897	337.2142948	603.4475445	969.9291078	
439.795943	1.141458698	1.74E-06	5.40E-05	UTRN
6	144285701	144853034	+ 14604	

protein_coding	utrophin [Source:HGNC Symbol;Acc:HGNC:12635]	-				
	768	882	1231	377	369	615
	2.662751996		3.904709099		1.248161385	1.101065461
	1.965845249					
ENSG00000137804	166.6024813		209.4909578		363.7410108	
36.16481599	69.45335068		90.27182779		246.6114833	
65.29666482	1.917152968		1.77E-06		5.49E-05	NUSAP1
	15	41332694	41381050		+	2875
protein_coding	nucleolar and spindle associated protein 1					
	[Source:HGNC Symbol;Acc:HGNC:18538]	-			144	226
	36	76	92	2.739172329	3.465808385	372
5.993873137	0.605432692		1.151951888		1.493812242	
ENSG00000108055	3827.229223		3539.099456		3581.675598	
2542.58748	2235.30126		2409.865316		3649.334759	
2395.918019	0.607040186		1.81E-06		5.61E-05	SMC3
	10	110567691	110604636		+	4275
protein_coding	structural maintenance of chromosomes 3 [Source:HGNC					
	Symbol;Acc:HGNC:2468]	-	3308	3818	3663	2531
	2456	42.31789869	39.37619644		39.69202492	2446
28.62577429	24.93325228		26.8187344			
ENSG00000041357	3689.550784		3210.031801		3308.86984	
2223.131605	2303.840751		2119.425522		3402.817475	
2215.465959	0.61886243		1.82E-06		5.62E-05	PSMA4
	15	78540405	78552419		+	6996
protein_coding	proteasome subunit alpha 4 [Source:HGNC					
	Symbol;Acc:HGNC:9533]	-	3189	3463	3384	2213
	2160	24.92868852	21.82411536		22.40696364	2521
15.29441357	15.70296427		14.41285396			
ENSG00000065534	3576.16854		3507.583117		5065.973594	
2265.323891	2245.353719		2578.634385		4049.908417	
2363.103998	0.777319205		1.85E-06		5.70E-05	MYLK
	3	123610049	123884331		-	22167
protein_coding	myosin light chain kinase [Source:HGNC					
	Symbol;Acc:HGNC:7590]	-	3091	3784	5181	2255
	2628	7.625824329	7.526241755		10.82702468	2457
4.91859248	4.830107904		5.534322658			
ENSG00000132646	4669.497323		4205.577326		4498.850513	
2982.592741	3026.703914		2961.308438		4457.975054	
2990.201698	0.576015006		1.85E-06		5.70E-05	PCNA
	20	5114953	5126626	-	1471	protein_coding
proliferating cell nuclear antigen [Source:HGNC						
	Symbol;Acc:HGNC:8729]	-	4036	4537	4601	2969
	150.0490318	135.9847053	144.8912023		3312	3018
98.11519089	95.77509657				97.58852218	
ENSG00000172167	636.3289216		464.4025216		632.6355753	
273.2452764	302.4876194		275.721561		577.7890062	
283.8181523	1.024590175		1.86E-06		5.70E-05	MTBP
	8	120445400	120542133		+	8326
protein_coding	MDM2 binding protein [Source:HGNC					
	Symbol;Acc:HGNC:7417]	-	550	501	647	272
						331

281	3.612609301	2.652987949	3.599733336	
1.579551222	1.732408018	1.575491082		
ENSG0000008300	333.2049626	341.1180198	463.4764493	
777.5435438	715.552284	715.3061137	379.2664772	
736.1339805	-0.955982675	1.88E-06	5.74E-05	CELSR3
3	48636469	48662915	-	13873
protein_coding	cadherin EGF LAG seven-pass G-type receptor 3			
[Source:HGNC Symbol;Acc:HGNC:3230]		-	288	368
774	783	729	1.135316146	1.169530064
1.582743036	2.69756421	2.45951782	2.453031798	
ENSG0000033100	1269.186958	1675.927663	1769.815133	
2885.148654	2627.347148	2467.757031	1571.643251	
2660.084278	-0.758542768	1.88E-06	5.74E-05	CHPF2
7	151232489	151238827	+	4205
protein_coding	chondroitin polymerizing factor 2 [Source:HGNC			
Symbol;Acc:HGNC:29270]	-	1097	1808	1810
2515	14.26708801	18.95685918	19.9395352	2875
33.0232378	29.79411204	27.92016787		
ENSG00000112992	1389.510973	1314.416718	1316.116668	
802.6579994	869.9946033	783.0099845	1340.014786	
818.5541957	0.710757853	1.91E-06	5.83E-05	NNT
5	43602692	43707405	+	8245
protein_coding	nicotinamide nucleotide transhydrogenase [Source:HGNC			
Symbol;Acc:HGNC:7863]	-	1201	1418	1346
798	7.96612396	7.582624134	7.562351432	952
4.685515035	5.031585839	4.518125261		
ENSG0000007376	1166.217369	1487.756581	1516.565343	
2305.50702	2210.627043	2333.330505	1390.179765	
2283.154856	-0.715045038	1.92E-06	5.84E-05	RPUSD1
16	784974	788397	-	2769
pseudouridylate	synthase domain containing 1 [Source:HGNC			
Symbol;Acc:HGNC:14173]	-	1008	1605	1551
2378	19.90821348	25.55559748	25.94724771	2295
40.07383915	38.06900364	40.08989607		2419
ENSG00000105968	4398.768291	3346.293618	4434.315817	
2551.628684	2563.376956	2430.470842	4059.792576	
2515.158827	0.690557037	1.95E-06	5.91E-05	H2AFV
7	44826791	44848083	-	4749
protein_coding	H2A histone family member V [Source:HGNC			
Symbol;Acc:HGNC:20664]	-	3802	3610	4535
2477	43.78291327	33.51498199	44.23617603	2540
25.86025265	25.73885918	24.34836889		2805
ENSG00000187951	183.9569064	178.9015702	244.449604	
56.25638043	52.09001301	84.38453467	202.4360269	
64.24364271	1.656943392	1.95E-06	5.91E-05	
AC091057.1	15	30658717	30772993	+
processed_transcript	OTU deubiquitinase 7A pseudogene			
[Source:NCBI gene;Acc:100288637]		-	159	193
56	57	86	1.542566169	1.509535157
2.054444577	0.480331655	0.440641522	0.712190953	250

ENSG00000197063	1565.369147	1642.557422	1754.170359	
2584.779765	2511.286943	2538.404549	1654.032309	
2544.823752	-0.621343402	1.97E-06	5.95E-05	MAFG
17	81918270	81927714	- 5220	
protein_coding	MAF bZIP transcription factor G [Source:HGNC			
Symbol;Acc:HGNC:6781]	TF_bZIP	1353 1772	1794 2573	2748
2587	14.17496536	14.96673856	15.92041526	
23.83254928	22.94060268	23.13513092		
ENSG00000109685	4668.340362	4718.181307	6063.327979	
3447.712458	2833.87948	3215.443257	5149.949882	
3165.678398	0.702205857	2.00E-06	6.03E-05	NSD2
4	1871424 1982207 +	19776	protein_coding	
nuclear receptor binding SET domain protein 2	[Source:HGNC			
Symbol;Acc:HGNC:12766]	HMG	4035 5090	6201 3432	3101
3277	11.15834534	11.34784217	14.52532083	
8.390928922	6.833165045	7.735422223		
ENSG00000182718	21647.90991	18583.51647	19340.85267	
10901.68287	13876.96224	13636.93329	19857.42635	
12805.1928	0.632886523	2.22E-06	6.70E-05	ANXA2
15	60347134	60402883	- 8824	
protein_coding	annexin A2 [Source:HGNC Symbol;Acc:HGNC:537]			-
18711	20048 19780	10852 15185	13898 115.9648077	
100.170424	103.8396567	59.46282008	74.9907841	
73.52462933				
ENSG00000076716	401.4657015	400.4428928	497.6993938	
205.9385355	186.427415	220.7734919	433.2026627	
204.3798141	1.08443573	2.23E-06	6.70E-05	GPC4
X	133300103	133415490	- 4960	
protein_coding	glypican 4 [Source:HGNC Symbol;Acc:HGNC:4452]			-
347	432 509	205 204	225 3.825978375	
3.840042476	4.753774335	1.998358495	1.792285077	
2.11761438				
ENSG00000232112	577.3238762	622.9111666	847.7512268	
300.3688884	344.5251738	366.9746043	682.6620899	
337.2895555	1.017513126	2.26E-06	6.78E-05	TMA7
3	48440257	48444208	+ 1139	
protein_coding	translation machinery associated 7 homolog			
[Source:HGNC Symbol;Acc:HGNC:26932]		-	499 672	867
299	377 374	23.95915705	26.01234509	
35.26126018	12.69254409	14.42368482	15.32829726	
ENSG00000132002	4638.259358	4568.015222	4087.19738	
7627.76244	6067.115726	6860.658912	4431.15732	
6851.845693	-0.62880953	2.26E-06	6.79E-05	DNAJB1
19	14514770	14529770	- 3672	
protein_coding	DnaJ heat shock protein family (Hsp40) member B1			
[Source:HGNC Symbol;Acc:HGNC:5270]		-	4009 4928	4180
7593	6639 6992	59.70739127	59.17005659	
52.73222118	99.97972637	78.78773107	88.88833737	
ENSG00000094916	6893.177664	5290.110161	7051.882177	
4276.489491	3876.5936	3914.068707	6411.723334	

4022.383933	0.672578023	2.27E-06	6.80E-05	CBX5
12	54230940	54280133	- 15040	
protein_coding	chromobox 5 [Source:HGNC Symbol;Acc:HGNC:1555]			-
5958	5707	7212	4257 4242 3989	21.6644354
16.72992501	22.21315963	13.68538534	12.29083605	
12.38118566				
ENSG00000165704	2633.244774	2203.362862	2216.669009	
1384.30879	1495.988619	1537.564719	2351.092215	
1472.620709	0.674544364	2.28E-06	6.82E-05	HPRT1
X	134460153	134520513	+ 1624	
protein_coding	hypoxanthine phosphoribosyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:5157]			-
1567	76.64449121	64.53229565	64.66480184	1637
41.02649439	43.92595904	45.04317624		
ENSG00000154229	3149.249681	2017.045682	3168.066868	
1447.597218	1368.962096	1739.695116	2778.120744	
1518.751477	0.871026141	2.38E-06	7.08E-05	PRKCA
17	66302636	66810743	+ 11152	
protein_coding	protein kinase C alpha [Source:HGNC Symbol;Acc:HGNC:9393]			-
1773	13.34842645	8.602805186	13.45843946	1498
6.247588784	5.853527329	7.421676338		
ENSG00000133316	1055.149048	1563.766575	1239.848392	
2468.248692	1878.895908	2719.92942	1286.254672	
2355.69134	-0.872202126	2.38E-06	7.09E-05	WDR74
11	62832342	62841809	- 4247	
protein_coding	WD repeat domain 74 [Source:HGNC Symbol;Acc:HGNC:25529]			-
2772	11.74376332	17.5132513	13.83054991	2056
27.97203816	21.09596747	30.46891581		
ENSG00000138385	2519.86253	2741.921475	2588.232408	
1679.654787	1521.576696	1818.192358	2616.672137	
1673.14128	0.64542893	2.42E-06	7.19E-05	SSB
2	169791933	169812064	+ 5113	
protein_coding	Sjogren syndrome antigen B [Source:HGNC Symbol;Acc:HGNC:11316]			-
1853	23.29575528	25.50682103	23.98173526	1665
15.81108585	14.19047859	16.91786918		
ENSG00000067064	1666.024813	1537.811943	1795.237892	
950.330998	1112.167471	995.9337523	1666.358216	
1019.477407	0.708577538	2.44E-06	7.23E-05	IDI1
10	1039152 1049170	- 4345	protein_coding	
isopentenyl-diphosphate delta isomerase 1 [Source:HGNC Symbol;Acc:HGNC:5387]				-
1015	18.12455799	16.8341256	19.57425997	1217
10.52695029	12.20560736	10.90491531		
ENSG00000249992	16051.68629	22990.2422	13573.79761	
26276.75255	30771.48979	41500.5104	17538.57537	
32849.58425	-0.905312071	2.45E-06	7.25E-05	
TMEM158 3	45224466	45226278	- 1813	

protein_coding	transmembrane protein 158 (gene/pseudogene)						
[Source:HGNC Symbol;Acc:HGNC:30293]	-	13874	24802	13882			
26157	33672	42295	418.5030224	603.1465626			
354.6963274	697.5757019	809.3375798	1089.023524				
ENSG00000059122	578.4808379	702.6289648	671.7475119				
1100.013153	1082.923955	1140.172434	650.9524382				
1107.70318	-0.766007724	2.46E-06	7.27E-05				
FLYWCH1	16	2911937	2951208	+	8419	protein_coding	
FLYWCH-type zinc finger 1 [Source:HGNC Symbol;Acc:HGNC:25404]	-						
500	758	687	1095	1185	1162	3.247911654	
3.96956259	3.780059913	6.288612377	6.133613958				
6.443052266							
ENSG00000103257	12232.5558	16518.26933	16180.60819				
26914.65972	22630.826	22460.02324	14977.14444				
24001.83632	-0.680292249	2.48E-06	7.31E-05	SLC7A5			
16	87830023	87869488	-	4745			
protein_coding	solute carrier family 7 member 5 [Source:HGNC						
Symbol;Acc:HGNC:11063]	-	10573	17820	16548	26792	24764	
22890	121.8587526	165.5790707	161.5517814				
273.0047065	227.4276042	225.193376					
ENSG00000162840	205.9391783	243.78815	224.8936357				
426.9457444	493.4843338	452.3403545	224.8736547				
457.5901442	-1.023996031	2.52E-06	7.41E-05	MT2P1			
4	68376323	68376505	+	183			
processed_pseudogene	metallothionein 2 pseudogene 1 [Source:HGNC						
Symbol;Acc:HGNC:7407]	-	178	263	230	425	540	
461	53.19411959	63.36342098	58.22093854				
112.2894764	128.5882447	117.5968995					
ENSG00000187123	440.8023984	331.8485084	448.809473				
134.6134818	178.2026761	208.9989056	407.15346				
173.9383545	1.226014367	2.54E-06	7.45E-05	LYPD6			
2	149329985	149474148	+	5033			
protein_coding	LY6/PLAUR domain containing 6 [Source:HGNC						
Symbol;Acc:HGNC:28751]	-	381	358	459	134	195	
213	4.139927713	3.136101096	4.22462545				
1.28729797	1.688364759	1.975598596					
ENSG00000139354	945.2376891	804.5935903	986.5986019				
445.0281524	571.1624234	485.7016821	912.1432937				
500.6307526	0.864770467	2.62E-06	7.67E-05	GAS2L3			
12	100573683	100628286	+	6799			
protein_coding	growth arrest specific 2 like 3 [Source:HGNC						
Symbol;Acc:HGNC:27475]	-	817	868	1009	443	625	
495	6.571609187	5.628706997	6.874618159				
3.150357947	4.00583977	3.398648053					
ENSG00000185049	748.5542042	959.3944308	1007.132369				
1596.274795	1559.958811	1468.879633	905.0270012				
1541.704413	-0.767569899	2.62E-06	7.67E-05	NELFA			
4	1982714	2041903	-	5935	protein_coding		
negative elongation factor complex member A [Source:HGNC							
Symbol;Acc:HGNC:12768]	-	647	1035	1030	1589	1707	

1497	5.961811908	7.688711838	8.039313362		
12.94506962	12.53347201	11.77462577			
ENSG00000129636	747.3972425	630.3267758	692.2812786		
395.8038195	386.5627281	315.9513973	690.0017656		
366.1059816	0.913746367	2.65E-06	7.72E-05	ITFG1	
16	47154387	47464149	-	7770	
protein_coding	integrin alpha FG-GAP repeat containing 1 [Source:HGNC				
Symbol;Acc:HGNC:30697]	-	646	680	708	394
322	4.546803775	3.858529739	4.22099361		423
2.45175133	2.372345543	1.934554142			
ENSG00000120738	205.9391783	564.5132448	338.318252		
859.9189581	936.7063744	929.2110969	369.590225		
908.6121431	-1.295301631	2.66E-06	7.75E-05	EGR1	
5	138465490	138469315	+	3138	
protein_coding	early growth response 1 [Source:HGNC				
Symbol;Acc:HGNC:3238]	zf-C2H2	178	609	346	856
947	3.102142729	8.556542491	5.107702755		1025
13.18930897	14.23408398	14.0877967			
ENSG00000186854	163.1315963	175.1937656	230.7604262		
63.28842799	70.36721056	53.96685357	189.6952627		
62.54083071	1.600778331	2.68E-06	7.76E-05		
TRABD2A 2	84821650	84907008	-	8771	
protein_coding	TraB domain containing 2A [Source:HGNC				
Symbol;Acc:HGNC:27013]	-	141	189	236	63
55	0.87915351	0.950050413	1.246422694		77
0.347290301	0.382560575	0.292724865			
ENSG00000277142	38.1797353	69.52133556	56.71230814		
225.0255217	219.3263706	129.5204486	54.80445967		
191.2907803	-1.798315184	2.68E-06	7.76E-05		
LINC00235	16	525155	527407	-	2253
intergenic non-protein coding	RNA 235 [Source:HGNC				
Symbol;Acc:HGNC:14138]	-	33	75	58	224
132	0.801027564	1.467688967	1.192529847		240
4.807154087	4.642037534	2.735009098			
ENSG00000084234	6314.696826	5722.069392	7834.12091		
4036.395296	3712.098822	4513.59139	6623.629043		
4087.361836	0.696501879	2.68E-06	7.76E-05	APLP2	
11	130068147	130144811	+	7463	
protein_coding	amyloid beta precursor like protein 2 [Source:HGNC				
Symbol;Acc:HGNC:598]	-	5458	6173	8012	4018
4600	39.99583817	36.46840702	49.73131635		4062
26.03141089	23.71838286	28.77334983			
ENSG00000188070	401.4657015	635.8884826	527.0333463		
893.0700394	1043.62798	1063.637623	521.4625101		
1000.111881	-0.937978598	2.74E-06	7.92E-05		
C11orf95	11	63759892	63768775	-	5948
protein_coding	chromosome 11 open reading frame 95				
[Source:HGNC	Symbol;Acc:HGNC:28449]	-	347	686	539
889	1142	1084	3.190459439	5.084954999	
4.197785675	7.226566735	8.36669123	8.507547022		

ENSG00000204356	2120.710752	2296.984927	1863.683781	
3064.968155	3619.798974	3244.879723	2093.793153	
3309.882284	-0.660700728	2.84E-06	8.19E-05	NELFE
6	31952087	31959110	- 2719	
protein_coding	negative elongation factor complex member E			
[Source:HGNC Symbol;Acc:HGNC:13974]	-	1833	2478	1906
3051	3961 3307	36.86786343	40.18149142	
32.47253133	54.2543065	63.48253087	56.77681459	
ENSG00000134775	668.7238486	813.8631017	871.2183888	
410.8724928	396.6151868	464.1149407	784.6017797	
423.8675401	0.889179908	2.88E-06	8.29E-05	FHOD3
18	36297714	36780055	+ 7965	
protein_coding	formin homology 2 domain containing 3 [Source:HGNC			
Symbol;Acc:HGNC:26178]	-	578 878	891 409	434
473	3.96859491	4.860071894	5.181963859	
2.482782893	2.374447366	2.772179812		
ENSG00000213694	531.0454092	377.2691143	636.5467689	
220.0026306	266.8470842	158.9569142	514.9537641	
215.2688763	1.257292309	2.90E-06	8.33E-05	S1PR3
9	88990863	89005010	+ 13578	
protein_coding	sphingosine-1-phosphate receptor 3 [Source:HGNC			
Symbol;Acc:HGNC:3167]	-	459 407	651 219	292
162	1.848721934	1.321577277	2.220995303	
0.779847218	0.937142524	0.55696159		
ENSG00000074696	3754.340638	3052.450107	3017.485912	
1956.918377	2211.540903	2020.322755	3274.758886	
2062.927345	0.666300319	2.92E-06	8.38E-05	HACD3
15	65530418	65578352	+ 7097	
protein_coding	3-hydroxyacyl-CoA dehydratase 3 [Source:HGNC			
Symbol;Acc:HGNC:24175]	-	3245 3293	3086 1948	2420
2059	25.00544621	20.45742103	20.14297308	
13.27135798	14.85932763	13.543396		
ENSG00000135956	2091.78671	2017.972634	2176.579274	
3567.257266	2967.303022	3165.401266	2095.446206	
3233.320518	-0.625694617	2.94E-06	8.40E-05	
TMEM127 2	96248516	96265994	- 6367	
protein_coding	transmembrane protein 127 [Source:HGNC			
Symbol;Acc:HGNC:26038]	-	1808 2177	2226 3551	3247
3226	15.52952918	15.07500751	16.19544054	
26.96603159	22.22317143	23.65241819		
ENSG00000087460	19376.79414	15874.03829	18239.85166	
11018.21394	12835.16198	11663.70888	17830.22803	
11839.02827	0.590699712	3.22E-06	9.21E-05	GNAS
20	58839718	58911192	+ 13320	
protein_coding	GNAS complex locus [Source:HGNC Symbol;Acc:HGNC:4392]			
-	16748 17125	18654 10968	14045 11887	
68.76278217	56.68397702	64.87392933	39.81295687	
45.94900553	41.65950197			
ENSG00000120708	45986.91269	17588.8979	40045.73413	
11360.77511	6893.245055	8811.315365	34540.51491	

9021.778511	1.936804137	3.26E-06	9.31E-05	TGFBI
5	136028895	136063818	+ 7810	
protein_coding	transforming growth factor beta	induced	[Source:HGNC	
Symbol;Acc:HGNC:11771]	-	39748 18975	40955 11309	7543
8980	278.3293209	107.1185558	242.9172479	
70.01230671	42.08735872	53.6749117		
ENSG00000120837	696.4909288	718.3871342	684.4588913	
302.3780448	437.7388813	356.1812336	699.7789848	
365.4327199	0.936580396	3.36E-06	9.55E-05	NFYB
12	104117077	104138289	- 4956	
protein_coding	nuclear transcription factor Y subunit beta			
[Source:HGNC Symbol;Acc:HGNC:7805]	NF-YB	602	775	700
301	479 363	6.642933521	6.894525191	
6.54288366	2.936543336	4.21175222	3.419175266	
ENSG00000145107	53.22023708	56.54401959	33.24514615	
181.8286582	217.4986508	116.7646468	47.66980094	
172.0306519	-1.85284363	3.39E-06	9.64E-05	
TM4SF19 3	196319342	196338503	- 1899	
protein_coding	transmembrane 4 L six family member 19		[Source:HGNC	
Symbol;Acc:HGNC:25167]	-	46 61	34 181	238
119	1.324730635	1.41624643	0.829385442	
4.608449434	5.461483049	2.925283978		
ENSG00000166845	676.8225803	423.6166714	691.3034802	
304.3872013	247.6560268	279.646423	597.2475773	
277.2298837	1.106861975	3.41E-06	9.67E-05	
C18orf54	18 54357917	54385218	+ 6165	
protein_coding	chromosome 18 open reading frame 54			
[Source:HGNC Symbol;Acc:HGNC:13796]	-	585	457	707
303	271 285	5.189404187	3.2682636	
5.312375788	2.376351959	1.915555801	2.158031675	
ENSG00000148296	1386.040088	1580.451695	1318.072265	
2292.447503	2109.188597	2378.466419	1428.188016	
2260.034173	-0.661844509	3.53E-06	9.98E-05	SURF6
9	133328774	133336398	- 4626	
protein_coding	surfeit 6		[Source:HGNC Symbol;Acc:HGNC:11478]	-
1198	1705 1348	2282 2308	2424 14.16269499	
16.24997559	13.49853757	23.85125459	21.74146345	
24.46093327				
ENSG00000117385	1398.766666	1345.933057	1968.308212	
878.001366	668.0315704	963.5536401	1571.002645	
836.5288589	0.909636146	3.71E-06	0.00010482	P3H1
1	42746335	42767084	- 6766	
protein_coding	prolyl 3-hydroxylase 1		[Source:HGNC	
Symbol;Acc:HGNC:19316]	-	1209 1452	2013 874	731
982	9.772125147	9.461687081	13.7820632	
6.245693324	4.708081599	6.775253203		
ENSG00000135862	6629.390402	5037.052499	8150.927597	
4008.267106	3381.281546	4125.030044	6605.790166	
3838.192899	0.783313559	3.74E-06	0.00010552	LAMC1
1	183023460	183145592	+ 8406	

protein_coding	laminin subunit gamma 1 [Source:HGNC						
Symbol;Acc:HGNC:6492]	-	5730	5434	8336	3990	3700	
4204	37.27863047	28.50126961		45.93786172			
22.95010762	19.18098634	23.34636965					
ENSG00000105048	194.3695615	282.720098		174.0481181			
406.8541799	465.1546776	680.9635705		217.0459259			
517.657476	-1.252573292	3.76E-06		0.000105832		TNNT1	
19	55132794	55149354		-	2171		
protein_coding	"troponin T1, slow skeletal type [Source:HGNC						
Symbol;Acc:HGNC:11948]"	-	168	305	178	405	509	
694	4.2319855	6.194039547		3.798067114			
9.01978979	10.21683916	14.92264072					
ENSG00000101150	7679.911603	8273.965883		6902.27902			
11202.05175	11616.0729	10873.83039		7618.718835			
11230.65168	-0.559813507	3.79E-06		0.000106476			
TPD52L2 20	63865228	63891545		+	4694		
protein_coding	tumor protein D52 like 2 [Source:HGNC						
Symbol;Acc:HGNC:12007]	-	6638	8926	7059	11151	12711	
11082	77.33727679	83.83932155		69.66306083			
114.8608292	118.0035931	110.2100239					
ENSG00000128564	65.94681552	176.1207168		83.11286537			
220.0026306	482.5180153	387.5801302		108.3934659			
363.3669254	-1.741326137	3.93E-06		0.000110232		VGf	
7	101162509	101165593		-	2704		
protein_coding	VGf nerve growth factor inducible [Source:HGNC						
Symbol;Acc:HGNC:12684]	-	57	190	85	219	528	
395	1.15282366	3.097996135		1.456178767			
3.91596358	8.509143211	6.819247359					
ENSG00000109943	21.98227184	25.95463194		28.35615407		0	
0	0	25.43101928	0	7.162062725			
3.99E-06	0.000111657	CRTAM	11	122838500			
122872639	+	2675	protein_coding	cytotoxic and			
regulatory T cell molecule [Source:HGNC	Symbol;Acc:HGNC:24313]	-					
19	28	29	0	0	0	0.38844052	
0.461496278	0.502199953	0	0	0	0		
ENSG00000156876	838.7972149	862.9915121		968.020432			
441.0098395	531.8664487	538.6873202		889.9363863			
503.8545361	0.820630448	4.00E-06		0.000111657		SASS6	
1	100083563	100132955		-	3972		
protein_coding	SAS-6 centriolar assembly protein [Source:HGNC						
Symbol;Acc:HGNC:25403]	-	725	931	990	439	582	
549	9.98213593	10.33414139		11.54591645			
5.343877535	6.385168207	6.452219605					
ENSG00000136104	1510.991948	1389.49976		1511.676351			
875.9922096	757.5898384	1001.821045		1470.722687			
878.4676978	0.743594256	4.10E-06		0.000114259			
RNASEH2B	13	50909678	51024120	+		26291	
protein_coding	ribonuclease H2 subunit B [Source:HGNC						
Symbol;Acc:HGNC:25671]	-	1306	1499	1546	872	829	
1021	2.716631828	2.513787056		2.723985806			

1.603653721	1.374061031	1.812861696				
ENSG00000147799	469.7264403	607.1529973	518.2331606			
1088.962793	802.3689724	1053.825468	531.7041994			
981.7190777	-0.883468226	4.11E-06	0.000114259			
ARHGAP39	8	144529179	144605816	-		4888
protein_coding Rho GTPase activating protein 39 [Source:HGNC						
Symbol;Acc:HGNC:29351]	-	406	655	530	1084	878
1074	4.542443656	5.908048621	5.022814371			
10.72258016	7.827479095	10.25697082				
ENSG00000100629	267.2581471	288.2818048	299.2063153			
130.5951689	128.8542427	104.9900606	284.9154224			
121.4798241	1.230040156	4.12E-06	0.000114259			CEP128
14	80476983	80959517	-	9400		
protein_coding centrosomal protein 128 [Source:HGNC						
Symbol;Acc:HGNC:20359]	-	231	311	306	130	141
107	1.343936778	1.458701714	1.507981552			
0.668677508	0.65365691	0.53137603				
ENSG00000130821	5111.456683	6458.068598	5345.623941			
7528.309196	9398.134979	12465.36196	5638.383074			
9797.268712	-0.797009186	4.12E-06	0.000114259			SLC6A8
X	153688099	153696593	+	5498		
protein_coding solute carrier family 6 member 8 [Source:HGNC						
Symbol;Acc:HGNC:11055]	-	4418	6967	5467	7494	10284
12704	43.94562938	55.86953194	46.06242459			
65.90375646	81.51094538	107.8653074				
ENSG00000170961	857.3086017	605.299095	419.4755205			
1101.017731	1232.796975	1755.394564	627.3610724			
1363.069757	-1.120670799	4.15E-06	0.000115061			HAS2
8	121612116	121641390	-	4190		
protein_coding hyaluronan synthase 2 [Source:HGNC						
Symbol;Acc:HGNC:4819]	-	741	653	429	1096	1349
1789	9.67161272	6.871208331	4.742919188			
12.64729788	14.02996296	19.93160874				
ENSG00000116459	5370.616099	5214.100167	5186.242799			
3023.780448	3528.412987	3815.947155	5256.986355			
3456.046863	0.60503337	4.21E-06	0.000116289			ATP5PB
1	111448864	111462773	+	3383		
protein_coding ATP synthase peripheral stalk-membrane subunit b						
[Source:HGNC Symbol;Acc:HGNC:840]	-		4642	5625		5304
3010	3861	3889	75.04086838	73.30852594		
72.62798135	43.01953525	49.73434488	53.66386905			
ENSG00000162627	1578.095726	1270.850014	1380.651364			
450.0510435	931.2232151	679.982355	1409.865701			
687.0855378	1.036141469	4.26E-06	0.000117664			SNX7
1	98661701	98760500	+	2067		
protein_coding sorting nexin 7 [Source:HGNC Symbol;Acc:HGNC:14971]						
-	1364	1371	1412	448	1019	693
36.08848132	29.24360682	31.64438618	10.47945637			
21.48287023	15.65088116					
ENSG00000171606	321.6353458	393.9542349	320.7178805			

596.7194639	713.7245643	639.7525187	345.4358204	
650.0655156	-0.91146467	4.31E-06	0.000118691	ZNF274
19	58183029	58213562	+ 8333	
protein_coding	zinc finger protein 274 [Source:HGNC			
Symbol;Acc:HGNC:13068]	zf-C2H2	278 425	328 594	781
652	1.824475882	2.248648151	1.823370473	
3.446563462	4.084211744	3.652517032		
ENSG00000216775	325.1062309	276.23144	321.6956789	
95.43493109	143.4760008	142.2762503	307.6777833	
127.0623941	1.274481822	4.40E-06	0.000121058	
AL109918.1	6 52664366	52669155	+ 3821	
	transcribed_unprocessed_pseudogene			uncharacterized
LOC730101 [Source:NCBI gene;Acc:730101]	-		281 298	329
95	157 145	4.021832645	3.438532903	
3.988607633	1.202119893	1.790528394	1.771483046	
ENSG00000261371	194.3695615	194.6597396	201.4264737	
69.31589732	58.48703215	83.40331915	196.8185916	
70.40208288	1.484187787	4.42E-06	0.000121258	PECAM1
17	64319415	64413776	- 7759	
protein_coding	platelet and endothelial cell adhesion molecule 1			
[Source:HGNC Symbol;Acc:HGNC:8823]	-		168 210	206
69	64 85	1.184126888	1.193294121	
1.229883356	0.429976337	0.359445309	0.511398217	
ENSG00000123416	13243.7403	12428.5609	15910.73583	
8298.820692	9356.097425	9540.358496	13861.01234	
9065.092204	0.612629172	4.43E-06	0.000121272	TUBA1B
12	49127782	49131397	- 3574	
protein_coding	tubulin alpha 1b [Source:HGNC Symbol;Acc:HGNC:18809]			
-	11447 13408	16272 8261	10238 9723	
175.1587541	165.403011	210.9059554	111.7581722	
124.8300587	126.9965062			
ENSG00000116786	2183.186682	2926.384752	2759.34713	
4526.629468	4418.512507	3749.2245	2622.972855	
4231.455492	-0.689559761	4.59E-06	0.000125508	
PLEKHM2 1	15684332	15734769	+ 4122	
protein_coding	pleckstrin homology and RUN domain containing M2			
[Source:HGNC Symbol;Acc:HGNC:29131]	-		1887 3157	2822
4506	4835 3821	25.03563582	33.76762782	
31.71403329	52.85479788	51.11484977	43.27280883	
ENSG00000127863	739.2985108	596.0295836	1013.976958	
412.8816493	310.7123583	408.1856561	783.101684	
377.2598879	1.05406862	4.60E-06	0.000125508	
TNFRSF19	13 23570370	23676104	+ 5113	
	protein_coding TNF receptor superfamily member 19			
[Source:HGNC Symbol;Acc:HGNC:11915]	-		639 643	1037
411	340 416	6.834705062	5.54458618	
9.395186802	3.886576726	2.897755388	3.798075326	
ENSG00000173848	992.6731178	844.4524893	1091.223032	
570.6004301	575.7317228	384.6364836	976.1162132	
510.3228788	0.935294737	4.63E-06	0.000126131	NET1

10	5412551	5458463	+	4175	protein_coding	
neuroepithelial cell transforming 1 [Source:HGNC Symbol;Acc:HGNC:14592]	-	858	911	1116	568	630
392	11.23894435	9.620460374		12.38255229		
6.577987932	6.575710235	4.383041907				
ENSG00000158290	4200.927845	3799.572726		4080.352791		
2312.539067	2821.085442	2751.328317		4026.95112		
2628.317608	0.615342091	4.69E-06		0.000127483		CUL4B
X	120524609	120575794		-	7031	
protein_coding	cullin 4B [Source:HGNC Symbol;Acc:HGNC:2555]					-
3631	4099	4173	2302	3087	2804	28.24254723
25.70364878	27.49373501	15.83031067		19.13278227		
18.61688205						
ENSG00000260032	7495.954697	5351.288936		7193.662948		
12444.71501	10795.42673	9554.095513		6680.302194		
10931.41242	-0.710616659	4.72E-06		0.000128121		NORAD
20	36045622	36050960		-	5339	
lincRNA non-coding RNA activated by DNA damage [Source:HGNC Symbol;Acc:HGNC:44311]	-	6479	5773	7357	12388	11813
9737	66.36556129	47.67334164		63.83271122		
112.1869891	96.41816921	85.13561644				
ENSG00000088888	2142.693023	2049.488972		2471.874396		
3330.176806	3459.873496	3357.719508		2221.352131		
3382.589937	-0.606671576	4.87E-06		0.00013208		MAVS
20	3846799	3876123	+	11771	protein_coding	
mitochondrial antiviral signaling protein [Source:HGNC Symbol;Acc:HGNC:29233]	-	1852	2211	2528	3315	3786
3422	8.604434549	8.281506381		9.948696121		
13.61668496	14.01605676	13.57102596				
ENSG00000149781	237.1771435	371.7074075		161.3367387		
562.5638043	740.2265007	559.2928461		256.7404299		
620.6943837	-1.272591722	4.96E-06		0.000134272		FERMT3
11	64206678	64223886		+	3066	
protein_coding	fermitin family member 3 [Source:HGNC Symbol;Acc:HGNC:23151]	-	205	401	165	560
570	3.656591314	5.766418789		2.492953911		810
8.831146574	11.51254832	8.678581395				
ENSG00000111716	572.6960295	708.1906716		741.1711995		
325.4833439	347.2667534	399.3547164		674.0193002		
357.3682713	0.916107747	5.01E-06		0.00013528		LDHB
12	21635342	21757857		-	2983	
protein_coding	lactate dehydrogenase B [Source:HGNC Symbol;Acc:HGNC:6541]	-	495	764	758	324
407	9.075000514	11.29208304		11.77113683		380
5.251616127	5.551226414	6.369233808				
ENSG00000073969	1558.427377	1287.535135		1590.878023		
818.7312509	986.9686676	843.8453467		1478.946845		
883.1817551	0.743238035	5.07E-06		0.000136789		NSF
17	46590669	46757464		+	5005	
protein_coding	"N-ethylmaleimide sensitive factor, vesicle fusing					

ATPase [Source:HGNC Symbol;Acc:HGNC:8016]"	-	1347	1389
1627 815 1080 860 14.71831952		12.23579302	
15.0586461 7.873262719 9.403256252		8.02121958	
ENSG00000139318	1343.232506	1346.860008	881.9741714
1749.975263	2613.639249	2282.307298	1190.688895
2215.30727	-0.896077182	5.17E-06	0.000139113
12	89347232	89353271	- 4632
protein_coding dual specificity phosphatase 6 [Source:HGNC			
Symbol;Acc:HGNC:3072]	-	1161 1453	902 1742
2326	13.70750401	13.83028156	9.020704213
18.18363966	26.9064301	23.441597	
ENSG00000143127	2685.308049	1880.783865	3202.289813
1245.676995	1149.635726	1702.408926	2589.460576
1365.907216	0.922764072	5.18E-06	0.000139223
1	145891208	145910189	- 6320
protein_coding integrin subunit alpha 10 [Source:HGNC			
Symbol;Acc:HGNC:6135]	-	2321 2029	3275 1240
1735	20.08411849	14.15464321	24.00472206
9.4864959	8.67405478	12.81528995	
ENSG00000101003	1218.280645	972.3717467	1191.936269
708.2276465	656.151392	616.2033462	1127.529554
660.1941282	0.771828983	5.28E-06	0.000141503
20	25407727	25452628	+ 4068
protein_coding GINS complex subunit 1 [Source:HGNC			
Symbol;Acc:HGNC:28980]	-	1053 1049	1219 705
628	14.15605169	11.36916323	13.88114265
8.379331829	7.691341554	7.206505714	
ENSG00000150764	1629.002039	1119.756978	1682.791074
850.8777541	864.511444	768.2917517	1477.183364
827.8936499	0.83485889	5.29E-06	0.000141503
11	111927144	112022584	+ 8509
protein_coding DIX domain containing 1 [Source:HGNC			
Symbol;Acc:HGNC:23695]	-	1408 1208	1721 847
783	9.049380385	6.259251017	9.369249462
4.812891854	4.844748205	4.295653813	
ENSG00000160606	151.5619795	176.1207168	148.6253593
403.8404453	414.8923843	275.721561	158.7693518
364.8181302	-1.199632709	5.30E-06	0.000141638
17	28724348	28727935	- 1311
protein_coding TLC domain containing 1 [Source:HGNC			
Symbol;Acc:HGNC:25177]	-	131 190	152 402
281	5.464662145	6.389764722	5.370854065
14.82601987	15.09078247	10.00575038	
ENSG00000130589	491.7087122	953.8327239	498.6771922
1193.438928	1892.603806	1237.31277	648.0728761
1441.118501	-1.152076167	5.31E-06	0.000141676
20	63558086	63574239	- 12066
protein_coding helicase with zinc finger 2 [Source:HGNC			
Symbol;Acc:HGNC:30021]	-	425 1029	510 1188
1261	1.92628402	3.759984129	1.957984777

4.760519365	7.47954838	4.878629094				
ENSG00000136631	1159.275599	1152.200268	1237.892795			
602.7469332	737.4849211	766.3293207	1183.122887			
702.1870583	0.75249027	5.37E-06	0.000143107	VPS45		
1	150067279	150145329	+ 6637			
protein_coding	vacuolar protein sorting 45 homolog [Source:HGNC					
Symbol;Acc:HGNC:14579]	-	1002 1243	1266 600	807		
781	8.256397936	8.257208842	8.83617572			
4.370998417	5.298589992	5.493197985				
ENSG0000008324	485.9239038	441.228743	470.3210382			
242.1033515	189.1689946	258.0596816	465.8245617			
229.7773426	1.019987181	5.46E-06	0.000145129	SS18L2		
3	42581840	42595114	+ 1298			
protein_coding	SS18 like 2 [Source:HGNC Symbol;Acc:HGNC:15593] -					
420	476 481	241 207	263 17.69576371			
16.16836922	17.16614749	8.977255104	6.949511065			
9.458605055						
ENSG00000091651	1000.771849	808.3013948	736.2822074			
433.9777919	527.2971493	395.4298543	848.4518172			
452.2349318	0.906625409	5.56E-06	0.000147623	ORC6		
16	46689643	46698394	+ 4309			
protein_coding	origin recognition complex subunit 6 [Source:HGNC					
Symbol;Acc:HGNC:17151]	-	865 872	753 432	577		
403	10.97828058	8.922240979	8.095076139			
4.847395655	5.835229168	4.365908081				
ENSG00000140450	229.0784118	240.0803455	172.0925212			
500.2799546	423.1171232	419.9602423	213.7504262			
447.7857734	-1.067049295	5.59E-06	0.000148031	ARRDC4		
15	97960698	97973838	+ 4072			
protein_coding	arrestin domain containing 4 [Source:HGNC					
Symbol;Acc:HGNC:28087]	-	198 259	176 498	463		
428	2.659206929	2.804309561	2.002199526			
5.913203018	4.954864923	4.906615603				
ENSG00000167526	53342.87502	72048.20437	61826.19385			
85194.2607	98232.62594	113635.5505	62405.75775			
99020.81239	-0.666036858	5.74E-06	0.000151765	RPL13		
16	89560657	89566828	+ 6172			
protein_coding	ribosomal protein L13 [Source:HGNC					
Symbol;Acc:HGNC:10303]	-	46106 77726	63230 84806	107492		
115811	408.5321516	555.2318347	474.5693875			
664.3575558	758.9424131	875.9310674				
ENSG00000117298	2320.865121	2257.126028	4018.75149			
1640.476237	1185.276261	1588.587926	2865.58088			
1471.446808	0.961870979	5.78E-06	0.000152439	ECE1		
1	21217247	21345572	- 7333			
protein_coding	endothelin converting enzyme 1 [Source:HGNC					
Symbol;Acc:HGNC:3146]	-	2006 2435	4110 1633	1297		
1619	14.96042587	14.64034256	25.96346148			
10.76727279	7.70755955	10.30649981				
ENSG00000140795	33.5518886	38.93194792	59.64570339	0		

	4.569299387	0	44.04317997	1.523099796	
4.810934319	5.78E-06		0.000152439	MYLK3	16
46703369	46790407		- 9522	protein_coding	myosin
light chain kinase 3 [Source:HGNC Symbol;Acc:HGNC:29826]					
	29	42	61	0	5
	0.1944711		0.296759147	0	0
ENSG00000109586	709.2175072		708.1906716	853.6180173	
212.9705831	446.8774801		372.8618974	757.008732	
344.2366535	1.136142846		5.84E-06	0.000153656	GALNT7
	4	173168753	173323967	+	6865
protein_coding polypeptide N-acetylgalactosaminyltransferase 7					
[Source:HGNC Symbol;Acc:HGNC:4129]					
	212	489	380	4.883313945	4.906669149
5.890825498	1.493126268		3.104037185	2.583979661	
ENSG00000105447	4115.312681		4609.728023	4735.477729	
7012.960568	6170.381892		6736.044541	4486.839478	
6639.795667	-0.5652459		5.93E-06	0.000155806	GRWD1
	19	48445773	48457022	+	5763
protein_coding glutamate rich WD repeat containing 1 [Source:HGNC					
Symbol;Acc:HGNC:21270]					
	6865	33.75436625	38.04554394	38.92855697	
58.56932716	51.05548567		55.60808737		
ENSG00000101188	128.422746		241.0072966	89.95745429	
315.4375617	464.2408177		541.6309667	153.1291656	
440.4364487	-1.522157204		6.28E-06	0.000164514	NTSR1
	20	62708837	62762771	+	4237
protein_coding neurotensin receptor 1 [Source:HGNC					
Symbol;Acc:HGNC:8039]					
	552	1.432713086	2.705508121	1.005846755	
3.583211148	5.224729926		6.081723193		
ENSG00000142892	1292.326192		935.2937011	1232.026004	
754.4382447	572.9901431		562.2364927	1153.215299	
629.8882935	0.872304089		6.28E-06	0.000164514	PIGK
	1	77088990	77219430	-	5513
protein_coding phosphatidylinositol glycan anchor biosynthesis class					
K [Source:HGNC Symbol;Acc:HGNC:8965]					
	751	627	573	11.08051366	8.069323593
10.58729486	6.586476718		4.956078152	4.851909206	
ENSG00000163755	1104.8984		1087.313688	1334.694838	
532.4264577	620.5108568		792.8221397	1175.635642	
648.5864847	0.858144586		6.37E-06	0.000166539	HPS3
	3	149129584	149173732	+	6256
protein_coding "HPS3, biogenesis of lysosomal organelles complex 2					
subunit 1 [Source:HGNC Symbol;Acc:HGNC:15597]"					
	1365	530	679	808	8.348363378
	10.10737472		4.096192387	4.729678624	6.029213412
ENSG00000148840	2249.133498		2581.558927	2547.164874	
4271.4666	3279.8431		4039.664294	2459.285766	
3863.657998	-0.651393328		6.66E-06	0.000173619	PPRC1
	10	102132994	102150331	+	6095

protein_coding	"peroxisome proliferator-activated receptor gamma, coactivator-related 1 [Source:HGNC Symbol;Acc:HGNC:30025]"						-
	1944	2785	2605	4252	3589	4117	17.44284266
	20.14584311		19.79869081		33.73034338		25.66010009
	31.53212161						
ENSG00000078053	443.1163218			363.3648472		400.8973506	
	108.494448	233.9481286		136.3889572		402.4595065	
	159.6105113	1.332034825		6.76E-06		0.000176111	AMPH
	7	38383704		38631567		-	5636
protein_coding	amphiphysin [Source:HGNC Symbol;Acc:HGNC:471]						-
	383	392	410	108	256	139	3.716400435
	3.066542871		3.369886921		0.92651827		1.979372712
	1.151303571						
ENSG00000119397	521.7897157			482.0145932		679.5698992	
	314.4329835	198.3075934		278.6652075		561.1247361	
	263.8019281	1.089871221		6.93E-06		0.000180258	CNTRL
	9	121074863		121177610		+	9417
protein_coding	centriolin [Source:HGNC Symbol;Acc:HGNC:1858]						-
	451	520	695	313	217	284	2.619139825
	2.434583819		3.41880783		1.607063301		1.004166575
	1.407835154						
ENSG00000177352	849.20987			909.3390692		889.7965587	
	1345.130239	1400.033332		1423.743719		882.7818326	
	1389.635763	-0.654314879		6.98E-06		0.000181122	CCDC71
	3	49162535		49166321		-	1781
protein_coding	coiled-coil domain containing 71 [Source:HGNC Symbol;Acc:HGNC:25760]						-
	1451	22.5385957		734	981	910	1339
	36.35112651	37.48464857		38.03203191		23.66900104	1532
ENSG00000143479	795.9896329			578.4175119		440.0092873	
	1245.676995	1186.190121		1062.656408		604.8054774	
	1164.841175	-0.947023312		7.03E-06		0.000182104	DYRK3
	1	206635536		206684419		+	4336
protein_coding	dual specificity tyrosine phosphorylation regulated kinase 3 [Source:HGNC Symbol;Acc:HGNC:3094]						-
	450	1240	1298	1083	8.677485116		688
	4.807570881		13.82718037		13.04499799		624
	11.65964208						
ENSG00000231991	1939.067768			1402.477076		1217.359028	
	824.7587203	853.5451255		874.2630278		1519.634624	
	850.8556245	0.836035414		7.08E-06		0.000183066	
ANXA2P2	9	33624274		33625293		+	1020
processed_pseudogene	annexin A2 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:539]						-
	891	89.860443		1676	1513	1245	821
	38.91743438	39.9029774		65.39924193		56.54206109	934
ENSG00000079819	2305.82462			40.77777903		2417.117685	
	1571.160339	1410.085791		2398.022601		2373.654969	
	1551.079125	0.614069883		1671.991245		2373.654969	
	7.17E-06			0.000185165			
EPB41L2	6	130839347		131063322		-	10320
protein_coding	erythrocyte membrane protein band 4.1 like 2						

[Source:HGNC Symbol;Acc:HGNC:3379]	-	1993	2587	2472
1564	1543	1704	10.56142001	11.05224973
11.09612205	7.327541182	6.515456154	7.707897468	
ENSG00000165119	13191.67703	14212.94184	15546.99482	
9247.142534	10057.94181	10227.20936	14317.20456	
9844.097901	0.540449466	7.21E-06	0.000185909	HNRNPK
9	83968083	83980616	-	5114
protein_coding	heterogeneous nuclear ribonucleoprotein K [Source:HGNC			
Symbol;Acc:HGNC:5044]	-	11402	15333	15900
10423	121.9312499	132.190538	144.0253225	9205
87.02905858	93.78370427	95.14326479		11006
ENSG00000164604	313.5366141	343.8988733	439.0314889	
182.8332364	170.8917971	135.4077417	365.4889921	
163.0442584	1.165161426	7.25E-06	0.000186509	GPR85
7	113078331	113087778	-	7396
protein_coding	G protein-coupled receptor 85 [Source:HGNC			
Symbol;Acc:HGNC:4536]	-	271	371	449
138	2.003858731	2.211622324	2.812236848	182
1.18980476	1.101801354	0.871020186		187
ENSG00000205426	107.5974358	138.11572	135.9139798	
39.17855066	36.5543951	14.71823279	127.2090452	
30.15039285	2.077078965	7.29E-06	0.000187355	KRT81
12	52285913	52291534	-	1929
protein_coding	keratin 81 [Source:HGNC Symbol;Acc:HGNC:6458]			
93	149	139	39	40
3.405555786	3.337989978	0.977537881	0.903621096	2.6366072
0.362998698				
ENSG00000144354	1064.404742	1332.955741	1316.116668	
852.8869105	597.6643598	603.4475445	1237.825717	
684.6662716	0.855148011	7.33E-06	0.000187944	CDCA7
2	173354820	173368997	+	3934
protein_coding	cell division cycle associated 7 [Source:HGNC			
Symbol;Acc:HGNC:14628]	-	920	1438	1346
615	12.78934151	16.11604563	15.84941219	849
10.43456986	7.244392804	7.297713274		654
ENSG00000168077	263.7872621	219.6874204	404.8085443	
141.6455293	89.55826799	90.27182779	296.0944089	
107.1585417	1.467489075	7.42E-06	0.000189935	SCARA3
8	27633868	27676776	+	4031
protein_coding	scavenger receptor class A member 3 [Source:HGNC			
Symbol;Acc:HGNC:19000]	-	228	237	414
92	3.093262393	2.592205966	4.757622712	141
1.691248915	1.059429045	1.06542054		98
ENSG00000137710	4181.259496	3261.014114	3257.046524	
2083.495232	2485.698867	2141.012263	3566.440045	
2236.735454	0.672676916	7.54E-06	0.000192793	RDX
11	109864295	110296722	-	8528
protein_coding	radixin [Source:HGNC Symbol;Acc:HGNC:9944]			
3614	3518	3331	2074	2720
18.18790183	18.09380464	11.75879386	2182	23.17584989
				13.89889615

	11.94410439					
ENSG0000059588	802.9314029	763.8077401	837.9732427			
404.8450235	473.3794165	499.4386994	801.5707952			
459.2210465	0.803355417	7.65E-06	0.000195314	TARBP1		
1	234391313	234479103	- 7743			
protein_coding	TAR (HIV-1) RNA binding protein 1 [Source:HGNC					
Symbol;Acc:HGNC:11568]	-	694 824	857 403	518		
509	4.901679644	4.691934173	5.127126331			
2.516500398	2.915272113	3.068700887				
ENSG00000134291	1826.842486	1878.003011	1926.26288			
1100.013153	1354.340338	982.196735	1877.036126			
1145.516742	0.7122242	7.67E-06	0.000195314			
TMEM106C	12 47963569	47968878	+	3475		
protein_coding	transmembrane protein 106C [Source:HGNC					
Symbol;Acc:HGNC:28775]	-	1579 2026	1970 1095	1482		
1001	24.84975057	25.70505811	26.26115802			
15.23563384	18.58454755	13.44699689				
ENSG0000060762	387.5821614	367.9996029	372.5411966			
175.8011889	207.4461922	149.144759	376.0409869			
177.4640467	1.082432715	7.68E-06	0.000195314	MPC1		
6	166364919	166383013	- 1546			
protein_coding	mitochondrial pyruvate carrier 1 [Source:HGNC					
Symbol;Acc:HGNC:21606]	-	335 397	381 175	227		
152	11.8503187	11.32178687	11.41610467			
5.473054535	6.398452723	4.589655982				
ENSG00000146410	260.316377	253.9846126	267.916766			
108.494448	121.5433637	107.9337071	260.7392519			
112.6571729	1.210150171	7.78E-06	0.000197517	MTRF2		
6	136231024	136250335	- 2450			
protein_coding	mitochondrial fission regulator 2 [Source:HGNC					
Symbol;Acc:HGNC:21115]	-	225 274	274 108	133		
110	5.022398244	4.930811911	5.180681988			
2.131370191	2.365615485	2.095910033				
ENSG00000100714	2983.804162	3485.33629	3922.927246			
2151.806552	1793.906939	2419.677471	3464.022566			
2121.796987	0.707489733	7.85E-06	0.00019893	MTHFD1		
14	64388031	64463457	+ 9377			
protein_coding	"methylenetetrahydrofolate dehydrogenase,					
cyclohydrolase and formyltetrahydrofolate synthetase 1 [Source:HGNC						
Symbol;Acc:HGNC:7432]"	-	2579 3760	4012 2142	1963		
2466	15.04118798	17.67900778	19.81980896			
11.0447723	9.122523301	12.27651764				
ENSG00000160888	709.2175072	1142.930757	866.3293967			
1665.590692	1447.554046	1759.319426	906.1592202			
1624.154721	-0.840687588	7.90E-06	0.000199984	IER2		
19	13150415	13154908	+ 3072			
protein_coding	immediate early response 2 [Source:HGNC					
Symbol;Acc:HGNC:28871]	-	613 1233	886 1658	1584		
1793	10.91274422	17.69602908	13.36026174			
26.09543443	22.46945629	27.24614817				

ENSG00000170759	6209.413314	5744.31622	5907.85803		
4167.995043	4311.590902	3759.036655	5953.862521		
4079.540867	0.545311177	7.97E-06	0.000201135	KIF5B	
10	32009010	32056431	- 5877		
protein_coding	kinesin family member 5B [Source:HGNC				
Symbol;Acc:HGNC:6324]	-	5367 6197	6042 4149	4718	
3831	49.94253899	46.49002325	47.62417726		
34.13413962	34.98330557	30.43003817			
ENSG00000186193	426.9188583	662.7700657	1169.446906		
293.3368408	227.5511095	362.0685267	753.0452766		
294.3188257	1.356420112	7.97E-06	0.000201135	SAPCD2	
9	137062124	137070588	- 3848		
protein_coding	suppressor APC domain containing 2 [Source:HGNC				
Symbol;Acc:HGNC:28055]	-	369 715	1196 292	249	
369	5.244281742	8.19228281	14.39788075		
3.669010922	2.819829707	4.476487114			
ENSG00000161091	1585.037496	1915.081057	1985.908583		
2947.432503	2692.231199	2865.149317	1828.675712		
2834.937673	-0.631993484	8.04E-06	0.000202375	MFSD12	
19	3538261 3574290	- 5277	protein_coding	major	
facilitator superfamily domain containing 12	[Source:HGNC				
Symbol;Acc:HGNC:28299]	-	1370 2066	2031 2934	2946	
2920	14.19803315	17.26144628	17.82893021		
26.88278334	24.32787894	25.83103412			
ENSG0000018510	3114.540831	2764.168302	3120.154746		
2052.353308	2053.443145	1897.670815	2999.621293		
2001.155756	0.583783081	8.51E-06	0.000213968	AGPS	
2	177392644	177559299	+ 8965		
protein_coding	alkylglycerone phosphate synthase [Source:HGNC				
Symbol;Acc:HGNC:327]	-	2692 2982	3191 2043	2247	
1934	16.42175144	14.66531187	16.48841714		
11.01841915	10.92223147	10.07052731			
ENSG00000137809	217.508795	154.8008405	380.3635839		
96.43950931	78.59194946	64.76022428	250.8910731		
79.93056102	1.650670892	8.58E-06	0.000214905	ITGA11	
15	68296533	68432162	- 10864		
protein_coding	integrin subunit alpha 11 [Source:HGNC				
Symbol;Acc:HGNC:6136]	-	188 167	389 96	86	
66	0.94637401	0.677736183	1.658678824		
0.427250611	0.344958851	0.283596074			
ENSG00000166147	2982.6472	1454.38634	2948.062225		
1364.217226	964.1221707	1292.260839	2461.698588		
1206.866745	1.028258775	8.58E-06	0.000214905	FBN1	
15	48408306	48645849	- 16057		
protein_coding	fibrillin 1 [Source:HGNC Symbol;Acc:HGNC:3603]				
2578	1569 3015	1358 1055	1317 8.780378111	-	
4.308166647	8.698119399	4.089183305	2.863166803		
3.828841631					
ENSG00000134779	2488.624564	2143.111038	2384.850337		
1630.430454	1459.434224	1485.560296	2338.86198		

1525.141658	0.616730581	8.72E-06	0.000218068	TPGS2
18	36777647	36829216	- 10571	
protein_coding	tubulin polyglutamylase complex subunit 2 [Source:HGNC			
Symbol;Acc:HGNC:24561]	-	2151 2312	2439 1623	1597
1514	11.12804954	9.642856745	10.68804278	
7.42341369	6.583357524	6.685837829		
ENSG00000111581	2414.579017	2425.831136	2551.076068	
1771.071405	1488.67774	1593.494004	2463.82874	
1617.747716	0.607122455	8.88E-06	0.00022185	NUP107
12	68686734	68745809	+ 8320	
protein_coding	nucleoporin 107 [Source:HGNC			
Symbol;Acc:HGNC:29914]	-	2087 2617	2609 1763	1629 1624
13.71809593	13.86801665	14.52623978	10.24543028	
8.532108228	9.111895585			
ENSG00000100934	2293.098041	1930.839226	2164.845693	
1332.070722	1467.658963	1319.734874	2129.59432	
1373.154853	0.632669413	8.90E-06	0.000221957	SEC23A
14	39031919	39109646	- 8945	
protein_coding	"Sec23 homolog A, coat complex II component			
[Source:HGNC	Symbol;Acc:HGNC:10701]"	-	1982 2083	2214
1326	1606 1345	12.11763922	10.26698395	
11.46567764	7.167445439	7.823909059	7.019205789	
ENSG00000091483	2827.614335	2731.725012	3085.931801	
1845.410194	2041.562966	1871.177996	2881.75705	
1919.383719	0.586211892	9.03E-06	0.000224799	FH
1	241497603	241519761	- 2142	
protein_coding	fumarate hydratase [Source:HGNC			
Symbol;Acc:HGNC:3700]	-	2444 2947	3156 1837	2234 1907
62.39883018	60.65891353	68.25272319	41.46588189	
45.44878735	41.56016493			
ENSG00000068308	1279.599613	1369.106835	1372.828976	
2305.50702	1914.536443	2020.322755	1340.511808	
2080.122072	-0.633536763	9.16E-06	0.000227122	OTUD5
X	48922028	48958386	- 3592	
protein_coding	OTU deubiquitinase 5 [Source:HGNC			
Symbol;Acc:HGNC:25402]	-	1106 1477	1404 2295	2095
2059	16.83889201	18.12917851	18.10644691	
30.89211041	25.41594705	26.75876432		
ENSG00000100626	136.5214777	145.5313291	200.4486753	
65.29758443	27.41579632	14.71823279	160.8338274	
35.81053785	2.170096108	9.16E-06	0.000227122	
GALNT16	14 69259277	69357033	+ 10802	
protein_coding	polypeptide N-acetylgalactosaminyltransferase 16			
[Source:HGNC	Symbol;Acc:HGNC:23233]	-	118 157	205
65	30 15	0.597410081	0.640810232	
0.879128064	0.290944666	0.121025164	0.064823596	
ENSG00000164919	1336.290735	1432.139513	1399.229534	
611.7881372	922.0846163	859.5447951	1389.219927	
797.8058495	0.799884442	9.17E-06	0.000227122	COX6C
8	99873200	99894062	- 3066	

protein_coding	cytochrome c oxidase subunit 6C [Source:HGNC					
Symbol;Acc:HGNC:2285]	-	1155	1545	1431	609	1009
876	20.60177057	22.21724945	21.62070937			
9.603871899	14.34093982	13.3376093				
ENSG00000123700	18.51138681	41.71280134	55.73450972			0
0	1.962431039	38.65289929	0.65414368			
5.904443926	9.41E-06	0.000232857	KCNJ2	17		
70168673	70180048	+ 5577	protein_coding			
potassium voltage-gated channel	subfamily J member 2 [Source:HGNC					
Symbol;Acc:HGNC:6263]	-	16	45	57	0	0
2	0.156896787	0.355750752	0.473452776			0
0	0.016740768					
ENSG00000063177	14027.00336	16830.65186	15635.97447			
21268.93012	22009.40129	25804.00573	15497.87656			
23027.44571	-0.571226629	9.52E-06	0.000235024			RPL18
19	48615328	48619536	-	4209		
protein_coding	ribosomal protein L18 [Source:HGNC					
Symbol;Acc:HGNC:10310]	-	12124	18157	15991	21172	24084
26298	157.5294348	190.1950132	175.9945233			
243.2115391	249.3493788	291.6687035				
ENSG00000102189	1499.422332	1300.512451	1290.693909			
908.1387127	770.3838767	844.8265623	1363.542897			
841.1163839	0.696818511	9.53E-06	0.000235024			EEA1
12	92770637	92929331	-	10150		
protein_coding	early endosome antigen 1 [Source:HGNC					
Symbol;Acc:HGNC:3185]	-	1296	1403	1320	904	843
861	6.98286542	6.094324664	6.024352072			
4.306293286	3.619262893	3.95989021				
ENSG00000181830	854.9946784	868.553219	990.5097956			
1405.404933	1517.007397	1391.363607	904.6858976			
1437.925312	-0.668340798	9.59E-06	0.000235967			
SLC35C1	11 45804072	45813015	+ 4505			
protein_coding	solute carrier family 35 member C1 [Source:HGNC					
Symbol;Acc:HGNC:20197]	-	739	937	1013	1399	1660
1418	8.97107228	9.170198858	10.41638698			
15.01495848	16.05727667	14.69357491				
ENSG00000163156	1196.298373	1160.542828	1111.756799			
1839.382725	1757.352544	1707.315004	1156.199333			
1768.016758	-0.612892926	9.68E-06	0.000237796			SCNM1
1	151156664	151170297	+ 3265			
protein_coding	sodium channel modifier 1 [Source:HGNC					
Symbol;Acc:HGNC:23136]	-	1034	1252	1137	1831	1923
1740	17.31936903	16.9065542	16.13168507			
27.11479811	25.66579354	24.87780724				
ENSG00000104067	1372.156547	918.6085806	1291.671708			
724.3008981	599.4920796	675.0762774	1194.145612			
666.2897517	0.841397336	9.74E-06	0.000239009			TJP1
15	29699367	29968865	-	11265		
protein_coding	tight junction protein 1 [Source:HGNC					
Symbol;Acc:HGNC:11827]	-	1186	991	1321	721	656

688	5.757689038	3.878612711	5.432179063	
3.094605444	2.537647185	2.851039787		
ENSG00000116774	196.6834849	167.7781565	259.1165803	
87.39830532	45.69299387	74.57237948	207.8594072	
69.22122622	1.588390627	9.82E-06	0.000240617	OLFML3
1	113979391	114035572	+ 2821	
protein_coding	olfactomedin like 3 [Source:HGNC			
Symbol;Acc:HGNC:24956]	-	170 181	265 87	50
76	3.295645939	2.82884692	4.351562681	
1.491136438	0.772370212	1.257640579		
ENSG00000135829	9141.1542	9175.889343	9425.976732	
6941.635514	6161.243294	6362.201428	9247.673425	
6488.360079	0.511284061	9.84E-06	0.000240728	DHX9
1	182839369	182887751	+ 5645	
protein_coding	DExH-box helicase 9 [Source:HGNC Symbol;Acc:HGNC:2750]			
-	7901 9899	9640 6910	6742 6484	
76.54429515	77.31456842	79.10711448	59.18549955	
52.04552571	53.61978839			
ENSG00000130592	468.5694787	309.601681	716.726239	
259.1811813	110.5770452	162.8817762	498.2991329	
177.5466676	1.489882442	9.89E-06	0.000241409	LSP1
11	1852970 1892267	+ 5399	protein_coding	
lymphocyte specific protein 1	[Source:HGNC Symbol;Acc:HGNC:6707]			
-	405 334	733 258	121 166	
4.102384933	2.727514684	6.289166653	2.31050863	
0.976631304	1.435293759			
ENSG0000011275	3475.512874	4135.129039	3628.609922	
5575.409132	5451.174169	5452.614642	3746.417279	
5493.065981	-0.551886508	1.00E-05	0.000244995	RNF216
7	5620047 5781739	- 7619	protein_coding	ring
finger protein 216	[Source:HGNC Symbol;Acc:HGNC:21698] - 3004			
4461	3711 5550	5965 5557	21.56237861	
25.81476689	22.56292691	35.2205575	34.11701859	
34.04775326				
ENSG00000128245	1816.429831	1839.071063	1911.595904	
1056.81629	1281.231548	1231.425477	1855.698933	
1189.824438	0.641065717	1.02E-05	0.000248401	YWHAH
22	31944461	31957603	+ 2453	
protein_coding	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase			
activation protein eta	[Source:HGNC Symbol;Acc:HGNC:12853] -			
1570	1984 1955	1052 1402	1255 35.00231887	
35.65973222	36.91914794	20.73573376	24.9062913	
23.88318339				
ENSG00000228672	68.26073887	171.4859611	158.4033434	
455.0739346	312.5400781	332.6320611	132.7166811	
366.7486913	-1.461697878	1.02E-05	0.000248409	PROB1
5	139390592	139395713	- 5122	
protein_coding	proline rich basic protein 1 [Source:HGNC			
Symbol;Acc:HGNC:41906]	-	59 185	162 453	342
339	0.629951552	1.592451126	1.465135854	

4.27621807	2.909679335	3.08962777				
ENSG00000162521	6015.043752	5431.933685	5343.668344			
3332.185962	4160.804022	3680.539414	5596.881927			
3724.509799	0.58736836	1.05E-05	0.000253653	RBBP4		
1	32651142	32686211	+ 9470			
protein_coding	"RB binding protein 4, chromatin remodeling factor					
[Source:HGNC Symbol;Acc:HGNC:9887]"	-	5199	5860	5465		
3317	4553	3751	30.02372345	27.28233862		
26.73268882	16.93544875	20.95107295	18.49026438			
ENSG00000152078	244.1189136	222.4682738	239.560612			
40.18312888	111.490905	78.49724156	235.3825998			
76.72375849	1.614473818	1.07E-05	0.000259936	TMEM56		
1	95117338	95197607	+ 7402			
protein_coding	transmembrane protein 56 [Source:HGNC					
Symbol;Acc:HGNC:26477]	-	211	240	245	40	122
80	1.558935286	1.429539365	1.533272899			
0.261283585	0.718239602	0.504529938				
ENSG00000104763	1568.840032	1449.751584	1416.829905			
813.7083598	877.3054823	1041.069666	1478.473841			
910.6945028	0.698853951	1.07E-05	0.000259936	ASAH1		
8	18055992	18084998	- 15378			
protein_coding	N-acylsphingosine amidohydrolase 1 [Source:HGNC					
Symbol;Acc:HGNC:735]	-	1356	1564	1449	810	960
1061	4.822303564	4.484054166	4.364866695			
2.546750375	2.720382511	3.220783726				
ENSG00000170275	8209.800051	7955.094691	9263.662195			
5208.738081	5528.852258	6341.595902	8476.185645			
5693.062081	0.574221501	1.08E-05	0.000261577	CRTAP		
3	33113979	33147773	+ 6695			
protein_coding	cartilage associated protein [Source:HGNC					
Symbol;Acc:HGNC:2379]	-	7096	8582	9474	5185	6050
6463	57.96391864	56.51606121	65.55189559			
37.44547947	39.37888282	45.06398674				
ENSG00000139687	5330.12244	4559.672662	4448.982794			
3201.590794	3384.936986	3016.256507	4779.592632			
3200.928095	0.578164572	1.09E-05	0.000262378	RB1		
13	48303726	48599436	+ 6452			
protein_coding	RB transcriptional corepressor 1 [Source:HGNC					
Symbol;Acc:HGNC:9884]	-	4607	4919	4550	3187	3704
3074	39.04977773	33.6137079	32.66777034			
23.88300234	25.01699934	22.241063				
ENSG00000170801	293.8682656	584.9061699	935.7530843			
201.9202226	204.7046125	268.8530523	604.8425066			
225.1592958	1.426675125	1.12E-05	0.000269661	HTRA3		
4	8269765	8307111	+ 3321	protein_coding	HtrA	
serine peptidase 3 [Source:HGNC	Symbol;Acc:HGNC:30406]					254
631	957	201	224	274	4.182727327	
8.377114309	13.34890118	2.926364356	2.939258214			
3.851480675						
ENSG00000143742	6050.909564	5208.53846	5140.286274			

3271.911269	4084.039792	3377.343818	5466.578099	
3577.76496	0.611333243	1.16E-05	0.00027771	SRP9
1	225777813	225790466	+ 1728	
protein_coding	signal recognition particle 9 [Source:HGNC			
Symbol;Acc:HGNC:11304]	-	5230 5619	5257 3257	4469
3442	165.5208331	143.3670179	140.9278073	
91.13290975	112.7003369	92.98505744		
ENSG00000112312	1183.571794	1019.646255	1039.399716	
601.742355	727.4324624	608.3536221	1080.872589	
645.8428132	0.742147216	1.16E-05	0.00027771	GMNN
6	24774931	24786099	+ 2476	
protein_coding	"geminin, DNA replication inhibitor [Source:HGNC			
Symbol;Acc:HGNC:17493]"	-	1023 1100	1063 599	796
620	22.59538294	19.58736439	19.8877238	
11.69707834	14.00944805	11.68926179		
ENSG00000103264	1575.781802	1651.826933	1953.641235	
2996.656836	2568.860115	2538.404549	1727.083324	
2701.307167	-0.645015286	1.17E-05	0.000280186	FBX031
16	87326987	87392142	- 6897	
protein_coding	F-box protein 31 [Source:HGNC Symbol;Acc:HGNC:16510]			
-	1362 1782	1998 2983	2811 2587	
10.79969758	11.39151357	13.41954261	20.91193613	
17.76066478	17.50984246			
ENSG00000180340	854.9946784	1254.164894	1321.00566	
608.7744025	498.0536332	715.3061137	1143.388411	
607.3780498	0.913632086	1.18E-05	0.000281815	FZD2
17	44557459	44559570	+ 2112	
protein_coding	frizzled class receptor 2 [Source:HGNC			
Symbol;Acc:HGNC:4040]	-	739 1353	1351 606	545
729	19.13573893	28.24475687	29.63219964	
13.87330476	11.2450447	16.11312033		
ENSG00000105245	894.3313753	1377.449395	992.4653924	
1965.95958	1899.000825	1743.619978	1088.082054	
1869.526795	-0.780015628	1.19E-05	0.000283582	NUMBL
19	40665905	40690972	- 5823	
protein_coding	"NUMB like, endocytic adaptor protein [Source:HGNC			
Symbol;Acc:HGNC:8061]"	-	773 1486	1015 1957	2078
1777	7.259846138	11.25138478	8.074612838	
16.24969643	15.55096525	14.24579444		
ENSG00000165490	1286.541383	998.3263787	1118.601388	
502.289111	770.3838767	603.4475445	1134.489717	
625.3735107	0.85823188	1.19E-05	0.000284445	DDIAS
11	82899975	82958277	+ 5339	
protein_coding	DNA damage induced apoptosis suppressor [Source:HGNC			
Symbol;Acc:HGNC:26351]	-	1112 1077	1144 500	843
615	11.39041583	8.893848769	9.925869463	
4.528050898	6.880599056	5.377262413		
ENSG00000180998	141.1493244	88.06035838	132.0027862	
23.10529911	21.93263706	43.17348286	120.4041563	
29.40380634	2.033768713	1.19E-05	0.000284501	

GPR137C	14	52553148	52637713	+	6193	
protein_coding		G protein-coupled receptor 137C [Source:HGNC				
Symbol;Acc:HGNC:		25445]	-	122	95	135 23 24
	44	1.077341683	0.676326623		1.009799484	
0.179567598		0.168876321	0.331663464			
ENSG00000138623		2599.692885	3121.971442		2478.718985	
3593.3763		4627.786419	5027.748322		2733.461104	
4416.30368		-0.69200111	1.20E-05		0.000285821	SEMA7A
	15	74409289	74433958	-	3800	
protein_coding		semaphorin 7A (John Milton Hagen blood group)				
[Source:HGNC		Symbol;Acc:HGNC:10741]			-	2247 3368 2535
	3577	5064	5124	32.33807683	39.07711061	
30.90272825		45.51311496	58.07225603		62.94649611	
ENSG00000138658		578.4808379	354.0953358		599.3904291	
261.1903377		168.1502174	248.2475264		510.6555343	
225.8626939		1.177012354	1.20E-05		0.000285821	ZGRF1
	4	112539333	112636995	-	9103	
protein_coding		zinc finger GRF-type containing 1 [Source:HGNC				
Symbol;Acc:HGNC:		25654]			-	500 382 613 260 184
	253	3.003863365	1.850174871		3.119452576	
1.380988372		0.880829554	1.29742426			
ENSG00000283041		2877.363688	3634.575423		3765.501701	
4647.178855		5673.242119	5888.274332		3425.813604	
5402.898435		-0.657050591	1.22E-05		0.000289255	
AC008038.1		7	133034607	133035920	-	1314
		processed_pseudogene			eukaryotic translation elongation	
factor 1 gamma (-			2487	3921 3851 4626 6208
	6001	103.5082897	131.563505		135.7627446	
170.2203502		205.8803703	213.1936659			
ENSG00000140545		507.9061756	587.6870233		837.9732427	
309.4100924		275.985683	364.0309577		644.5221472	
316.4755777		1.027077338	1.22E-05		0.000289812	MFGE8
	15	88898683	88913411	-	6837	
protein_coding		milk fat globule-EGF factor 8 protein [Source:HGNC				
Symbol;Acc:HGNC:		7036]			-	439 634 857 308 302
	371	3.511507926	4.088440069		5.806543686	
2.178142821		1.924863604	2.533111844			
ENSG00000140391		4558.429002	3868.167111		4011.906902	
2695.28337		2985.58022	2673.812291		4146.167672	
2784.89196		0.573880346	1.23E-05		0.000290092	TSPAN3
	15	77041404	77083984	-	8506	
protein_coding		tetraspanin 3 [Source:HGNC Symbol;Acc:HGNC:17752]				
	-	3940	4173	4103	2683	3267 2725
25.33177117		21.63002216	22.34490921		15.25093643	
16.73718258		14.95502571				
ENSG00000071575		2310.452466	1924.350568		2362.360973	
1417.459871		1471.314403	1372.720512		2199.054669	
1420.498262		0.630203949	1.23E-05		0.000290163	TRIB2
	2	12716889	12742734	+	4588	
protein_coding		tribbles pseudokinase 2 [Source:HGNC				

Symbol;Acc:HGNC:30809]	-	1997	2076	2416	1411	1610
1399	23.80396858	19.94977022		24.39360441		
14.86978951	15.29188645	14.23443852				
ENSG00000165055	860.7794867	980.714307		844.8178316		
1394.354572	1550.820212	1343.284046		895.4372084		
1429.486277	-0.674594502	1.24E-05		0.000292805		
METTTL2B	7	128476729	128506602	+	6749	
protein_coding	methyltransferase like 2B [Source:HGNC					
Symbol;Acc:HGNC:18272]	-	744	1058	864	1388	1697
1369	6.028763121	6.911625488		5.930301451		
9.943774212	10.9572359	9.469129496				
ENSG00000110237	1283.070498	1510.003408		2590.188004		
961.3813585	621.4247166	994.9525367		1794.420637		
859.2528706	1.062913703	1.25E-05		0.000294673		
ARHGEF17	11	73308289	73369388	+		9908
protein_coding	Rho guanine nucleotide exchange factor 17					
[Source:HGNC	Symbol;Acc:HGNC:21726]					
957	680	1014	6.121252029	7.248848854		2649
12.38506859	4.670110498	2.990759649		4.777470268		
ENSG00000105640	17353.26817	21737.00425		20696.08128		
28182.43744	27848.05204	38161.43398		19928.78457		
31397.30782	-0.655741168	1.26E-05		0.000296455		RPL18A
19	17859876	17864153		+	3527	
protein_coding	ribosomal protein L18a [Source:HGNC					
Symbol;Acc:HGNC:10311]	-	14999	23450	21166	28054	30473
38892	232.5688569	293.1374768		277.9942339		
384.5834132	376.5029209	514.7553313				
ENSG00000175505	188.5847531	215.0526647		302.1397106		
84.38457065	63.05633154	107.9337071		235.2590428		
85.12486978	1.468560336	1.27E-05		0.000298091		CLCF1
11	67364168	67374177		-	1975	
protein_coding	cardiotrophin like cytokine factor 1 [Source:HGNC					
Symbol;Acc:HGNC:17412]	-	163	232	309	84	69
110	4.513518399	5.179106515		7.247593641		
2.056427498	1.522441411	2.599989661				
ENSG00000104419	15251.06881	20703.45373		8122.571443		
37808.30596	51001.6059	52614.73858		14692.36466		
47141.55015	-1.681930057	1.27E-05		0.000298091		NDRG1
8	133237171	133302022		-	9823	
protein_coding	N-myc downstream regulated 1 [Source:HGNC					
Symbol;Acc:HGNC:7679]	-	13182	22335	8307	37636	55809
53622	73.38915309	100.2480124		39.17441522		
185.2509878	247.5817877	254.8266824				
ENSG00000178951	1077.13132	1440.482073		1530.254521		
2376.832073	2074.461922	2186.148177		1349.289305		
2212.480724	-0.71267308	1.29E-05		0.000300726		ZBTB7A
19	4044364	4066945	-	5725		protein_coding
finger and BTB domain containing 7A [Source:HGNC	Symbol;Acc:HGNC:18078]					
ZBTB	931	1554		1565	2366	2270
2228	8.893422047	11.96766659		12.66313704		

19.98206953	17.27861644	18.16710521			
ENSG00000198157	483.6099804	445.8634987	510.4107732		
263.1994942	249.4837465	257.0784661	479.9614175		
256.5872356	0.903448318	1.29E-05	0.000300726	HMGN5	
X	81113701	81201942	- 2416		
protein_coding	high mobility group nucleosome binding domain 5				
[Source:HGNC Symbol;Acc:HGNC:8013]		-	418 481	522	
262	273	262	9.461806551	8.777727705	
10.00866213	5.243310514	4.924071096	5.062329358		
ENSG00000143458	301.9669974	334.6293618	267.916766		
793.6167954	601.3197993	459.2088631	301.5043751		
618.0484859	-1.035169091	1.29E-05	0.000300726	GABPB2	
1	151070578	151125542	+ 9189		
protein_coding	GA binding protein transcription factor subunit beta 2				
[Source:HGNC Symbol;Acc:HGNC:28441]		-	261 361	274	
790	658	468	1.553341583	1.732099787	
1.38128968	4.156808871	3.120442899	2.377517035		
ENSG00000164949	1660.240005	1606.406327	1001.265578		
2324.594006	2991.977239	2341.180229	1422.637303		
2552.583825	-0.843776505	1.29E-05	0.000300931	GEM	
8	94249253	94262350	- 2648		
protein_coding	GTP binding protein overexpressed in skeletal muscle				
[Source:HGNC Symbol;Acc:HGNC:4234]		-	1435 1733	1024	
2314	3274	2386	29.63661736	28.85456556	
17.91366431	42.25193377	53.8789709	42.06283054		
ENSG00000160214	1551.485607	1846.486673	1688.657865		
2643.045302	2390.657439	2715.023342	1695.543381		
2582.908695	-0.606776889	1.30E-05	0.000301196	RRP1	
21	43789513	43805293	+ 4251		
protein_coding	ribosomal RNA processing 1 [Source:HGNC				
Symbol;Acc:HGNC:18785]		-	1341 1992	1727 2631	2616
2767	17.2517194	20.66008895	18.81930966		
29.92477954	26.81669376	30.38533928			
ENSG00000112559	819.1288664	1018.719304	2228.40259		
348.588643	128.8542427	163.8629918	1355.41692		
213.7686258	2.665031898	1.35E-05	0.000312064	MDFI	
6	41636882	41654246	+ 2523		
protein_coding	MyoD family inhibitor [Source:HGNC				
Symbol;Acc:HGNC:6967]		-	708 1099	2279 347	141
167	15.34654863	19.20500391	41.84364708		
6.649874372	2.43534481	3.08990592			
ENSG00000131171	2531.432146	1788.088751	1893.017734		
968.413406	1392.722453	1207.876304	2070.84621		
1189.670721	0.798945821	1.35E-05	0.000312064		
SH3BGR1 X	81201943	81298547	+ 2304		
protein_coding	SH3 domain binding glutamate rich protein like				
[Source:HGNC Symbol;Acc:HGNC:10823]		-	2188 1929	1936	
964	1524	1231	51.9349306	36.91337128	
38.92470537	20.22999501	28.82445403	24.94144517		
ENSG00000154146	352.8733111	300.3321696	617.968599		

152.6958897	201.9630329	164.8442073	423.7246932	
173.16771	1.290634104	1.35E-05	0.000312396	NRGN
11	124739846	124747210	+ 1309	
protein_coding	neurogranin [Source:HGNC Symbol;Acc:HGNC:8000]			-
305	324 632	152 221	168	12.74250772
	10.91287854	22.36556571	5.61442336	7.357177345
	5.991225569			
ENSG00000121211	320.4783842	242.8611989	317.7844853	
127.5814342	131.5958223	54.94806909	293.7080228	
104.7084419	1.486851473	1.38E-05	0.000317666	MND1
4	153344649	153415118	+ 1511	
protein_coding	meiotic nuclear divisions 1 [Source:HGNC			
Symbol;Acc:HGNC:24839]	-	277 262	325 127	144
56	10.02559179	7.644881975	9.963716282	
4.063876235	4.152949265	1.730093596		
ENSG00000100911	1027.381968	1172.593193	1397.273937	
606.7652461	707.3275451	776.1414759	1199.083033	
696.7447557	0.783534313	1.41E-05	0.000324831	PSME2
14	24143362	24147570	- 3582	
protein_coding	proteasome activator subunit 2 [Source:HGNC			
Symbol;Acc:HGNC:9569]	-	888 1265	1429 604	774
791	13.55757754	15.57036889	18.48030366	
8.1529086	9.416163197	10.30853472		
ENSG00000104549	2509.449875	2173.700425	2704.590419	
1551.068775	1577.322148	1685.728262	2462.58024	
1604.706395	0.61774232	1.41E-05	0.000324831	SQLE
8	124998497	125022283	+ 4305	
protein_coding	squalene epoxidase [Source:HGNC Symbol;Acc:HGNC:11279]			
-	2169 2345	2766 1544	1726 1718	
27.55377508	24.01616448	29.763327	17.34104865	
17.47134072	18.62927868			
ENSG00000128039	820.2858281	913.9738249	582.767856	
1188.416037	1552.647932	1414.912779	772.342503	
1385.325582	-0.843098689	1.43E-05	0.000328102	SRD5A3
4	55346109	55373096	+ 4420	
protein_coding	steroid 5 alpha-reductase 3 [Source:HGNC			
Symbol;Acc:HGNC:25812]	-	709 986	596 1183	1699
1442	8.772405097	9.835322468	6.246351883	
12.94087648	16.75057452	15.22961858		
ENSG00000125871	844.5820233	686.8707954	784.1943298	
339.547439	480.6902955	445.4718458	771.8823828	
421.9031935	0.870439717	1.44E-05	0.000329911	MGME1
20	17968913	17991122	+ 2336	
protein_coding	mitochondrial genome maintenance exonuclease 1			
[Source:HGNC Symbol;Acc:HGNC:16205]	-	730 741		802
338	526 454	17.09010513	13.98554283	
15.90391279	6.995923927	9.812315491	9.072543313	
ENSG00000130764	3139.993988	3662.383957	3111.35456	
5117.321463	4710.033808	4763.801347	3304.577502	
4863.718873	-0.557390691	1.45E-05	0.000331755	LRR47

1	3778558	3796504	-	4516	protein_coding		
leucine rich repeat containing 47	[Source:HGNC Symbol;Acc:HGNC:29207]						
-	2714	3951	3182	5094	5154	4855	
32.86628545	38.57332304		32.63989086		54.5388811		
49.73350628	50.18585608						
ENSG00000112578	1610.490653		1956.793858		1691.59126		
2611.903377	2568.860115		2811.182463		1752.95859		
2663.981985	-0.603368515		1.46E-05		0.000333564		BYSL
6	41921188		41933046		+	2248	
protein_coding	bystin like [Source:HGNC Symbol;Acc:HGNC:1157]			-			
1392	2111	1730	2600	2811	2865	33.8639521	
41.40243503		35.64940223		55.92142859		54.49079404	
59.49416249							
ENSG00000161203	11234.09787		10417.07692		11858.73919		
7324.379817	7634.385416		8371.730812		11169.97133		
7776.832015	0.522351828		1.49E-05		0.000339952		AP2M1
3	184174689		184184091		+	4756	
protein_coding	adaptor related protein complex 2 subunit mu 1						
[Source:HGNC Symbol;Acc:HGNC:564]				-	9710	11238	12128
7291	8354	8532	111.6534371		104.1792292		
118.1271696	74.12188729		76.54401218		83.74425756		
ENSG00000132967	859.6225251		1107.706613		1484.297996		
696.1727079	537.3496079		598.5414669		1150.542378		
610.6879276	0.914650548		1.49E-05		0.000340064		
HMGB1P5 3	22381819		22382929		+	1111	
transcribed_processed_pseudogene	high mobility group box 1						
pseudogene 5	[Source:HGNC Symbol;Acc:HGNC:4997]			-	743	1195	
1518	693	588	610	36.57374795	47.4228668		
63.29365397		30.15923992		23.06332213	25.63077935		
ENSG00000157613	1501.736255		1561.912672		2453.296226		
915.1707603	994.2795466		1141.153649		1838.981718		
1016.867985	0.854995531		1.52E-05		0.000345158		
CREB3L1 11	46277661		46321422		+	4037	
protein_coding	cAMP responsive element binding protein 3 like 1						
[Source:HGNC Symbol;Acc:HGNC:18856]				TF_bZIP	1298	1685	2509
911	1088	1163	17.5837158		18.40242743		
28.79017917	10.91090675		11.74434346		13.448288		
ENSG00000176022	1637.100771		1791.796555		2010.353544		
2697.292526	2720.560855		2780.764782		1813.083623		
2732.872721	-0.59164662		1.52E-05		0.000346884		
B3GALT6 1	1232226	1235041	+	2816			
protein_coding	"beta-1,3-galactosyltransferase 6 [Source:HGNC						
Symbol;Acc:HGNC:17978]"				-	1415	1933	2056 2685 2977
2834	27.48011223		30.26447618		33.82150396		
46.10126645	46.06857533		46.98002367				
ENSG00000145794	41.65062033		17.61207168		72.3570828		0
4.569299387	0		43.87325827		1.523099796		
4.807046129	1.54E-05		0.000348863		MEGF10 5		
127290831	127465737		+	9007	protein_coding		
multiple EGF like domains 10	[Source:HGNC Symbol;Acc:HGNC:29634]						

-	36	19	74	0	5	0	
0.218583336	0.093005235		0.380587055		0	0.0241907	
0							
ENSG00000198756	148.0910945		136.2618177		124.1803989		
286.3047933	309.7984984		285.5337162		136.1777703		
293.8790026	-1.110977501		1.59E-05		0.000360456		
COLGALT2	1	183929854		184037729	-	7806	
protein_coding	collagen beta(1-0)galactosyltransferase 2						
[Source:HGNC Symbol;Acc:HGNC:16790]			-		128	147	127
285	339	291	0.896759808		0.8302765		
0.753663755	1.765295969		1.892473248		1.740245334		
ENSG00000164985	2356.730933		2877.256341		3020.419308		
1547.050462	1769.232723		1917.295125		2751.468861		
1744.526103	0.657601562		1.59E-05		0.000360456		PSIP1
9	15464066		15511019		-	6768	
protein_coding	PC4 and SFRS1 interacting protein 1 [Source:HGNC						
Symbol;Acc:HGNC:9527]			-		2037	3104	3089 1540 1936
1954	16.45983175		20.22065971		21.1426789		
11.00174532	12.46532485		13.47752808				
ENSG00000166710	15352.88144		14983.23824		13739.04555		
6796.97625	11536.56709		8230.435777		14691.72174		
8854.659707	0.730415581		1.63E-05		0.000367684		B2M
15	44711487		44718877		+	6079	
protein_coding	beta-2-microglobulin [Source:HGNC Symbol;Acc:HGNC:914]						
-	13270	16164	14051	6766	12624	8388	
119.3805271	117.2332099		107.0724022		53.81471772		
90.49476159	64.41282018						
ENSG00000197256	2733.90044		2615.856119		3500.51833		
1902.671153	1509.696517		2001.67966		2950.09163		
1804.682443	0.709242899		1.65E-05		0.000372504		KANK2
19	11164267		11197791		-	7638	
protein_coding	KN motif and ankyrin repeat domains 2 [Source:HGNC						
Symbol;Acc:HGNC:29300]			-		2363	2822	3580 1894 1652
2040	16.91915933		16.2896335		21.71229987		
11.98951284	9.425165539		12.46799298				
ENSG00000161011	8075.592496		9868.321845		7825.320725		
12328.18394	13233.60488		12364.29676		8589.745022		
12642.02853	-0.557467994		1.66E-05		0.000373996		SQSTM1
5	179806398		179838078		+	7654	
protein_coding	sequestosome 1 [Source:HGNC Symbol;Acc:HGNC:11280]						
-	6980	10646	8003	12272	14481	12601	
49.87256184	61.32420996		48.43583765		77.52255989		
82.44582979	76.85331223						
ENSG00000263465	1168.531292		1102.144906		981.7096098		
1685.682257	1608.393384		1739.695116		1084.128603		
1677.923586	-0.630456085		1.67E-05		0.000376756		SRSF8
11	95067197		95071224		+	4028	
protein_coding	serine and arginine rich splicing factor 8						
[Source:HGNC Symbol;Acc:HGNC:16988]			-		1010	1189	1004
1678	1760	1773	13.71281524		13.01446593		

11.54640287	20.14205192	19.04065148	20.54779904	
ENSG00000071859	2928.270001	3139.583514	2811.170446	
4386.993096	4211.980175	4186.846622	2959.674654	
4261.939964	-0.52598118	1.68E-05	0.000378318	FAM50A
X	154444126	154450654	+ 2567	
protein_coding	family with sequence similarity	50 member A		
[Source:HGNC Symbol;Acc:HGNC:18786]	-	2531	3387	2875
4367	4609	4267	53.92137885	58.17324444
51.88172844	82.25428654	78.24190883	77.596621	
ENSG00000066056	672.1947336	637.7423849	1477.453407	
315.4375617	356.4053522	500.4199149	929.1301751	
390.7542763	1.249935282	1.69E-05	0.000379842	TIE1
1	43300993	43323108	+ 6694	
protein_coding	tyrosine kinase with immunoglobulin like and EGF like	domains 1		
[Source:HGNC Symbol;Acc:HGNC:11809]	-	581	688	
1511	314	390	510	4.746627348
10.45637649	2.268011	2.538852654	3.556562982	
ENSG00000148606	1859.237413	1725.056073	1622.167572	
2891.176123	2415.331656	2586.484109	1735.487019	
2630.997296	-0.600421399	1.74E-05	0.000389502	POLR3A
10	77969251	78029545	- 8917	
protein_coding	RNA polymerase III subunit A	[Source:HGNC		
Symbol;Acc:HGNC:30074]	-	1607	1861	1659
2636	9.855798659	9.201562164	8.618468034	2878
15.60534015	12.91626641	13.79979628		2643
ENSG00000100644	5254.919931	4434.534258	4629.875501	
2621.949159	3669.147408	2700.30511	4773.109896	
2997.133892	0.671057429	1.75E-05	0.000391954	HIF1A
14	61695513	61748259	+ 5151	
protein_coding	hypoxia inducible factor 1 subunit alpha	[Source:HGNC		
Symbol;Acc:HGNC:4910]	Others	4542	4784	4735
2752	48.2225634	40.94808339	42.58247394	2610
24.49910246	33.96664072	24.94037134		4015
ENSG00000198176	5971.079208	5988.10437	6465.203128	
4276.489491	4278.691946	4462.568183	6141.462235	
4339.249873	0.501172709	1.77E-05	0.000395552	TFDP1
13	113584721	113641470	+ 3741	
protein_coding	transcription factor Dp-1	[Source:HGNC		
Symbol;Acc:HGNC:11749]	E2F	5161	6460	6612
4548	75.44680682	76.13402104	81.8742986	4257
55.01956577	54.5383882	56.75168801		4682
ENSG00000079246	15507.9143	12636.19795	14311.05762	
10281.8581	9643.049426	9468.729763	14151.72329	
9797.879097	0.530376221	1.77E-05	0.000395552	XRCC5
2	216107464	216206303	+ 5463	
protein_coding	X-ray repair cross complementing 5	[Source:HGNC		
Symbol;Acc:HGNC:12833]	-	13404	13632	14636
9650	134.1831341	110.0176426	124.1062508	10235
90.58532837	84.17094048	82.45977561		10552
ENSG00000114473	746.2402808	794.3971277	616.9908006	

1135.173391	1273.920669	1144.097296	719.209403	
1184.397119	-0.719835601	1.78E-05	0.000396426	IQCG
3	197889075	197960142	- 7474	
protein_coding	IQ motif containing G [Source:HGNC			
Symbol;Acc:HGNC:25251]	-	645 857	631 1130	1394
1166	4.719558068	5.055471732	3.910918102	
7.310154678	8.127711471	7.282684447		
ENSG00000143384	13071.35301	17054.97404	10632.57998	
20230.19624	25307.52159	21115.75798	13586.30234	
22217.82527	-0.709542022	1.78E-05	0.000397175	MCL1
1	150574551	150579738	- 4371	
protein_coding	"MCL1, BCL2 family apoptosis regulator [Source:HGNC			
Symbol;Acc:HGNC:6943]"	-	11298 18399	10874 20138	27693
21520	141.3564001	185.5869228	115.2420507	
222.7597627	276.0881693	229.8304124		
ENSG00000136271	3984.576011	4321.446219	3703.9004	
6650.30783	5692.433176	5483.032323	4003.307543	
5941.924443	-0.569656045	1.80E-05	0.000399895	DDX56
7	44565417	44575051	- 4068	
protein_coding	DEAD-box helicase 56 [Source:HGNC			
Symbol;Acc:HGNC:18193]	-	3444 4662	3788 6620	6229
5588	46.29956506	50.5272059	43.13516681	
78.68252016	66.72613724	64.12413046		
ENSG00000100162	297.3391507	482.0145932	598.4126307	
204.9339573	214.7570712	195.2618884	459.2554582	
204.9843056	1.16495896	1.84E-05	0.000408285	CENPM
22	41938721	41947164	- 1778	
protein_coding	centromere protein M [Source:HGNC			
Symbol;Acc:HGNC:18352]	-	257 520	612 204	235
199	7.904894524	12.89453083	15.9449118	
5.547529589	5.759631568	5.224772148		
ENSG00000164877	1169.688254	1185.570509	1937.018662	
846.8594412	615.0276975	807.5403725	1430.759142	
756.4758371	0.919947918	1.92E-05	0.000425384	
MICALL2	7 1428465 1459502	- 8843	protein_coding	MICAL
like 2 [Source:HGNC	Symbol;Acc:HGNC:29672]		-	1011 1279
1981	843 673	823	6.252392642	6.37683056
10.37737011	4.609238344	3.316454451	4.344564468	
ENSG00000004660	556.498566	703.5559159	420.4533189	
1057.820868	970.5191898	1029.29508	560.169267	
1019.211713	-0.863041322	1.93E-05	0.000426673	CAMKK1
17	3860315 3894891	- 7424	protein_coding	
calcium/calmodulin dependent	protein kinase kinase 1 [Source:HGNC			
Symbol;Acc:HGNC:1469]	-	481 759	430 1053	1062
1049	3.543250246	4.507521124	2.683075837	
6.857907523	6.233689285	6.596044255		
ENSG00000104824	4364.059441	5047.248962	5164.731234	
3370.359935	2942.628805	3487.239956	4858.679879	
3266.742899	0.572949818	1.96E-05	0.00043241	HNRNPL
19	38836388	38852347	- 6821	

protein_coding	heterogeneous nuclear ribonucleoprotein L [Source:HGNC					
Symbol;Acc:HGNC:5045]	-	3772	5445	5282	3355	3220
	3554	30.24254582	35.19522877	35.87176974		
23.78185306	20.57152178	24.32290311				
ENSG00000269190	1044.736393	1428.431708	1134.246163			
1870.524649	1855.135551	2086.064194	1202.471421			
1937.241465	-0.687273846	1.96E-05	0.000432769			FBX017
	19	38941401	38975910	-	4960	
protein_coding	F-box protein 17 [Source:HGNC					
Symbol;Acc:HGNC:18754]	-	903	1541	1160	1862	2030
						2126
9.956364475	13.6979293	10.83374898	18.15094399			
17.83499365	20.00910299					
ENSG00000172175	1382.569202	1010.376744	1215.403431			
753.4336665	702.7582457	717.2685447	1202.783126			
724.486819	0.730769204	1.98E-05	0.00043558			MALT1
	18	58671386	58754477	+	11527	
protein_coding	MALT1 paracaspase [Source:HGNC					
Symbol;Acc:HGNC:6819]	-	1195	1090	1243	750	769
						731
5.669520433	4.169117764	4.995250722	3.145909223			
2.907158058	2.96037767					
ENSG00000150687	4964.52255	3655.8953	4899.747863			
2698.297104	2553.324497	3234.086352	4506.721904			
2828.569318	0.671891293	1.99E-05	0.000438602			PRSS23
	11	86791059	86952910	+	11725	
protein_coding	serine protease 23 [Source:HGNC					
Symbol;Acc:HGNC:14370]	-	4291	3944	5011	2686	2794
						3296
20.01429865	14.8305758	19.79766664	11.07629142			
10.38417858	13.122615					
ENSG00000108861	3332.049626	3542.80726	2751.524743			
4749.645834	5106.648995	4602.882002	3208.793876			
4819.72561	-0.58696893	2.02E-05	0.000442935			DUSP3
	17	43766121	43778988	-	5012	
protein_coding	dual specificity phosphatase 3 [Source:HGNC					
Symbol;Acc:HGNC:3069]	-	2880	3822	2814	4728	5588
	4691	31.42506164	33.62122851	26.00851083		
45.61079289	48.58519307	43.69184723				
ENSG00000114446	1387.197049	1083.605884	1101.978815			
649.9621096	744.7958001	755.53595	1190.927249			
716.7646199	0.731708947	2.03E-05	0.000444992			IFT57
	3	108160812	108222570	-	3766	
protein_coding	intraflagellar transport 57 [Source:HGNC					
Symbol;Acc:HGNC:17367]	-	1199	1169	1127	647	815
	770	17.41139548	13.68573585	13.86264354		
8.30663603	9.430525436	9.544571712				
ENSG00000121064	608.5618414	579.344463	750.9491836			
363.6573164	371.0271102	350.2939405	646.2851627			
361.6594557	0.837601623	2.04E-05	0.00044677			SCPEP1
	17	56978105	57006768	+	3853	
protein_coding	serine carboxypeptidase 1 [Source:HGNC					
Symbol;Acc:HGNC:29507]	-	526	625	768	362	406

357	7.46588761	7.151793502	9.233464139	
4.542665703	4.591828109	4.325290117		
ENSG00000151348	2177.401874	1846.486673	2632.233336	
1253.713621	1202.639599	1552.282952	2218.707294	
1336.212057	0.731605793	2.04E-05	0.00044677	EXT2
11	44095549	44245429	+ 5286	
protein_coding	exostosin glycosyltransferase 2 [Source:HGNC			
Symbol;Acc:HGNC:3513]	-	1882 1992	2692 1248	1316
1582	19.47095141	16.61483885	23.59121739	
11.41533453	10.84894052	13.97093127		
ENSG00000133067	17.35442514	15.75816939	31.28954932	0
0	0	21.46738128	0	6.917485676
2.07E-05	1	LGR6	1	202193901 202319781
+	4583	protein_coding	leucine rich repeat containing	
G protein-coupled	receptor 6 [Source:HGNC Symbol;Acc:HGNC:19719]			
-	15	17	32	0 0 0
0.178993028	0.1635434	0.32344659	0	0 0
ENSG00000280287	144.6202095	121.4305995	188.7150943	
360.6435817	319.8509571	316.9326128	151.5886344	
332.4757172	-1.13308269	2.08E-05	0.000454396	
AC131212.3	12	132550729	132554947	+ 4219
TEC	novel transcript		-	125 131 193
359	350	323	1.620299136	1.368975665
2.119094086	4.114207009	3.615073376	3.573872319	
ENSG00000128656	488.2378272	564.5132448	657.0805357	
292.3322626	316.1955176	319.8762593	569.9438692	
309.4680132	0.881591686	2.09E-05	0.000455993	CHN1
2	174799363	175005369	-	4971
protein_coding	chimerin 1 [Source:HGNC Symbol;Acc:HGNC:1943]			-
422	609	672	291	346 326 4.642622807
5.40141427	6.262214879	2.830417119	3.033129363	
3.061398554				
ENSG00000136718	1763.209594	2144.037989	1873.461765	
2897.203592	2865.864576	2850.431084	1926.903116	
2871.166417	-0.574955493	2.12E-05	0.000461943	IMP4
2	130342225	130347810	+ 3861	
protein_coding	"IMP4, U3 small nucleolar ribonucleoprotein			
[Source:HGNC Symbol;Acc:HGNC:30856]"	-	1524	2313	1916
2884	3136	2905	21.58638299	26.41251697
22.98783964	36.11575273	35.39442408	35.12306205	
ENSG00000122642	2685.308049	2550.042588	3403.716287	
1719.837916	1755.524825	2010.510599	2879.688975	
1828.624447	0.655235116	2.13E-05	0.000463748	FKBP9
7	32957404	33006931	+ 5170	
protein_coding	FK506 binding protein 9 [Source:HGNC			
Symbol;Acc:HGNC:3725]	-	2321 2751	3481 1712	1921
2049	24.55157231	23.46032398	31.19004031	
16.01085166	16.19181076	18.50109577		
ENSG00000143226	38.1797353	7.415609127	22.48936357	0
0	0	22.69490267	0	6.993809159

2.16E-05	1	FCGR2A	1	161505430	161524013	
+	5314	protein_coding		Fc fragment of IgG receptor		
IIa [Source:HGNC	Symbol;Acc:HGNC:3616]		-	33	8	23
0	0	0	0.339615187	0.066374673		
0.200497398	0	0	0			
ENSG00000142192	10254.15133		9315.858966	13328.37021		
7082.276465	5357.046601		7682.917517	10966.12684		
6707.413528	0.709287072		2.16E-05	0.000468681		APP
21	25880550		26171128	-	6316	
protein_coding	amyloid beta precursor protein					
[Source:HGNC	Symbol;Acc:HGNC:620]	-	8863	10050	13631	7050
7830	76.74204018		70.15488198	99.9742264		5862
53.96947733	40.44476259		57.87162491			
ENSG00000115414	41839.20508		14581.8684	41520.25415		
10152.26751	5104.821275		8438.453467	32647.10921		
7898.514085	2.047304022		2.18E-05	0.000472987		FN1
2	215360440		215436172	-	17315	
protein_coding	fibronectin 1					
[Source:HGNC	Symbol;Acc:HGNC:3778]	-	36163	15731	42463	10106
-	36163	15731	42463	10106	5586	8600
114.2185568	40.05601981		113.603218	28.22006531		
14.05843681	23.18579497					
ENSG00000187676	843.4250616		694.2864045	791.0389187		
478.1792337	459.6715183		433.6972596	776.2501283		
457.1826705	0.763217736		2.18E-05	0.000473039		B3GLCT
13	31199936		31332276	+	4566	
protein_coding	beta 3-glucosyltransferase					
[Source:HGNC	Symbol;Acc:HGNC:20207]	-	729	749	809	476
442	8.731449246		7.232357218	8.207578974		503
5.04048425	4.800546443		4.518896537			
ENSG00000105321	507.9061756		796.25103	864.3737999		
1363.212647	1161.515904		1427.668581	722.8436685		
1317.465711	-0.864622681		2.20E-05	0.000476032		CCDC9
19	47255980		47273701	+	3845	
protein_coding	coiled-coil domain containing 9					
[Source:HGNC	Symbol;Acc:HGNC:24560]	-	439	859	884	1357
1455	6.24399992		9.849876328	10.65021504		1271
17.06415236	14.40481895		17.66496108			
ENSG00000135631	1221.75153		1592.50206	1366.962186		
2614.917112	1957.487857		2196.941548	1393.738592		
2256.448839	-0.694434623		2.23E-05	0.000481473		
RAB11FIP5	2	73073382	73156721	-		7058
protein_coding	RAB11 family interacting protein 5					
[Source:HGNC	Symbol;Acc:HGNC:24845]	-	1056	1718		1398
2603	2142	2239	8.182329735	10.73187149		
9.175462681	17.8317403		13.22502221	14.80875252		
ENSG00000110492	1439.260325		1658.315591	2560.854052		
917.1799167	1220.916796		897.8122003	1886.143322		
1011.969638	0.898325204		2.25E-05	0.000484553		MDK
11	46380756		46383837	+	2196	
protein_coding	midkine					-
[Source:HGNC	Symbol;Acc:HGNC:6972]					

	1244	1789	2619	913	1336	915	30.98009587	
	35.91798484		55.24660798		20.10201803		26.51140353	
	19.45068023							
ENSG0000001617	627.0732282			1057.651252		1064.822475		
300.3688884	493.4843338			521.0254408		916.5156517		
438.2928877	1.064636874			2.26E-05		0.000485933		SEMA3F
3	50155045			50189075		+	4826	
protein_coding	semaphorin 3F [Source:HGNC Symbol;Acc:HGNC:10728]							
-	542	1141		1089	299	540	531	
6.141955729	10.42394917			10.45304976		2.995608728		
4.876015079	5.136333793							
ENSG00000136143	1122.252825			977.0065025		968.020432		
604.7560897	660.7206914			629.9403635		1022.426587		
631.8057148	0.693799301			2.26E-05		0.000485933		SUCLA2
13	47745736			48037968		-	8928	
protein_coding	succinate-CoA ligase ADP-forming beta subunit							
[Source:HGNC Symbol;Acc:HGNC:11448]				-		970	1054	990
602	723	642		5.94172114		5.204995846		
5.136691325	3.260194618			3.528927316		3.356810943		
ENSG00000163719	1057.462972			1149.419415		1084.378444		
1512.894802	1797.562379			1770.112797		1097.086943		
1693.523326	-0.626226631			2.26E-05		0.000485933		MTMR14
3	9649433	9702393	+	6019		protein_coding		
myotubularin related protein 14	[Source:HGNC Symbol;Acc:HGNC:26190]							
-	914	1240		1109	1506	1967	1804	
8.304558813	9.083041528			8.535120533		12.0976731		
14.24093861	13.99130506							
ENSG00000105671	2288.470195			2922.676947		2702.634822		
4643.160542	3587.813879			4051.43888		2637.927321		
4094.137767	-0.63374274			2.27E-05		0.000486218		DDX49
19	18919675			18928633		+	2780	
protein_coding	DEAD-box helicase 49 [Source:HGNC							
Symbol;Acc:HGNC:18684]				-	1978	3153	2764	4622
4129	38.91134153			50.00496559		46.05700557		3926
80.38710002	61.54093597			69.33397871				
ENSG00000174307	509.0631373			971.4447956		688.370085		
1311.979158	1231.883115			1560.132676		722.9593393		
1367.998316	-0.918654587			2.27E-05		0.000486218		PHLDA3
1	201464383			201469237		-	3138	
protein_coding	pleckstrin homology like domain family A member 3							
[Source:HGNC Symbol;Acc:HGNC:8934]				-		440	1048	704
1306	1348	1590		7.668217983		14.72455916		
10.39255127	20.12294101			18.7195563		23.65321726		
ENSG00000137509	1471.655252			1333.882692		1799.149086		
836.8136589	976.916209			995.9337523		1534.895676		
936.5545401	0.712581522			2.29E-05		0.000489179		PRCP
11	82823502			82970584		-	12798	
protein_coding	prolylcarboxypeptidase [Source:HGNC							
Symbol;Acc:HGNC:9344]				-	1272	1439	1840	833
1015	5.43550273			4.957384974		6.660060479		1069

3.147053399	3.639939767	3.702286064				
ENSG00000125352	345.931541	469.0372773	324.6290742			
631.8797017	744.7958001	723.1558378	379.8659642			
699.9437799	-0.880787179	2.30E-05	0.000491603			
RNF113A X	119870475	119871827	-	1353		
protein_coding	ring finger protein 113A [Source:HGNC					
Symbol;Acc:HGNC:12974]	-	299	506	332	629	815
737	12.08559689	16.48870994	11.36691842			
22.47781359	26.24934131	25.42820635				
ENSG00000143195	590.0504546	303.1130231	603.3016228			
258.1766031	142.5621409	216.8486298	498.8217001			
205.8624579	1.27698402	2.31E-05	0.000492077			ILDR2
1	166895711	166975482	-	13884		
protein_coding	immunoglobulin like domain containing receptor 2					
[Source:HGNC	Symbol;Acc:HGNC:18131]	-	510	327		617
257	156	221	2.008862833	1.038405801		
2.05860496	0.894993198	0.489630644	0.743059694			
ENSG00000153956	742.7693958	581.1983653	661.9695277			
410.8724928	316.1955176	369.9182508	661.9790963			
365.6620871	0.85609725	2.32E-05	0.000493826			
CACNA2D1	7	81946444	82443798	-		9010
protein_coding	calcium voltage-gated channel auxiliary					
subunit alpha2delta 1 [Source:HGNC	Symbol;Acc:HGNC:1399]	-				
642	627	677	409	346	377	3.896771586
3.068150845	3.480697918	2.194824167	1.673439075			
1.953271418						
ENSG00000087995	1140.764212	1139.222952	978.7762146			
1675.636474	1766.491143	1581.719417	1086.25446			
1674.615678	-0.624715333	2.36E-05	0.000501741			
METTL2A 17	62423867	62450822	+	3843		
protein_coding	methyltransferase like 2A [Source:HGNC					
Symbol;Acc:HGNC:25755]	-	986	1229	1001	1668	1933
1612	14.03140768	14.09988129	12.06607857			
20.98586517	21.91896622	19.58126247				
ENSG00000170962	141.1493244	61.1787753	131.0249878			
28.12819022	29.24351608	22.56795695	111.1176958			
26.64655441	2.057585301	2.40E-05	0.000510163			PDGFD
11	103907186	104164379	-	4266		
protein_coding	platelet derived growth factor D [Source:HGNC					
Symbol;Acc:HGNC:30620]	-	122	66	134	28	32
23	1.563988993	0.682114124	1.455078431			
0.317349923	0.32687953	0.251682501				
ENSG00000175602	2763.981443	4710.765698	3776.257483			
5945.093918	6054.321688	6617.317463	3750.334875			
6205.57769	-0.726183246	2.41E-05	0.0005108			
CCDC85B 11	65890112	65891635	+	1524		
protein_coding	coiled-coil domain containing 85B [Source:HGNC					
Symbol;Acc:HGNC:24926]	-	2389	5082	3862	5918	6625
6744	85.72863237	147.0224487	117.3896366			
187.7548699	189.4346908	206.5754134				

ENSG00000127483	5932.899473	5305.86833	5430.692403	
3724.976047	3638.076172	4180.959328	5556.486736	
3848.003849	0.529984627	2.43E-05	0.000515279	HP1BP3
1	20742661	20787323	- 7442	
protein_coding	heterochromatin protein 1 binding protein 3			
[Source:HGNC Symbol;Acc:HGNC:24973]	-		5128 5724	5554
3708	3981 4261	37.68365886	33.91125928	
34.57153521	24.090803	23.31101102	26.72808873	
ENSG00000103043	1959.893079	2319.231754	2004.486753	
3762.145441	2935.317926	3021.162584	2094.537195	
3239.541984	-0.628822431	2.45E-05	0.000516775	VAC14
16	70687439	70801161	- 8276	
protein_coding	"Vac14, PIKFYVE complex component [Source:HGNC			
Symbol;Acc:HGNC:25507]"	-	1694 2502	2050 3745	3212
3079	11.19406016	13.32909862	11.47455455	
21.87925634	16.91272753	17.36741743		
ENSG00000143621	7241.423128	6790.844058	7619.983057	
5252.939523	5007.038268	5114.095287	7217.416748	
5124.691026	0.49401326	2.45E-05	0.000516775	ILF2
1	153661788	153671048	- 2281	
protein_coding	interleukin enhancer binding factor 2 [Source:HGNC			
Symbol;Acc:HGNC:6037]	-	6259 7326	7793 5229	5479
5212	150.0632607	141.6040214	158.2638939	
110.8395038	104.6729859	106.6657908		
ENSG00000124201	1759.738709	1643.484373	1500.920569	
2756.562641	2480.215707	2243.058678	1634.71455	
2493.279009	-0.609229046	2.46E-05	0.000518518	ZNFX1
20	49237946	49278426	- 9340	
protein_coding	zinc finger NFX1-type containing 1 [Source:HGNC			
Symbol;Acc:HGNC:29271]	-	1521 1773	1535 2744	2714
2286	8.905884338	8.369428766	7.61314251	
14.20490872	12.66256142	11.4255045		
ENSG00000120868	480.1390954	376.3421632	514.3219669	
134.6134818	267.7609441	208.9989056	456.9344085	
203.7911105	1.163316772	2.47E-05	0.000518518	APAF1
12	98645141	98735433	+ 7908	
protein_coding	apoptotic peptidase activating factor 1 [Source:HGNC			
Symbol;Acc:HGNC:576]	-	415 406	526 134	293
213	2.869962016	2.263566881	3.081211707	
0.819293207	1.614579959	1.257358085		
ENSG00000167601	6754.342263	8419.497212	12315.37105	
1990.069458	2601.759071	4012.190259	9163.070176	
2868.006263	1.675800112	2.47E-05	0.000518518	AXL
19	41219203	41261766	+ 5154	
protein_coding	AXL receptor tyrosine kinase [Source:HGNC			
Symbol;Acc:HGNC:905]	-	5838 9083	12595 1981	2847
4089	61.94615989	77.6996134	113.2025509	
18.58408905	24.07141668	37.03554434		
ENSG00000165072	170.0733663	106.5993812	253.2497898	
13.05951689	53.00387289	56.91050013	176.6408458	

40.99129664	2.104996843	2.47E-05	0.000518662	MAMDC2
9	70043581	70226970	+ 3854	
protein_coding	MAM domain containing 2 [Source:HGNC			
Symbol;Acc:HGNC:23673]	-	147 115	259 13	58
58	2.085932915	1.315588559	3.113081636	
0.163092075	0.655805238	0.702525866		
ENSG00000164308	1210.181913	888.0191929	1512.65415	
816.7220945	477.034856	510.2320701	1203.618419	
601.3296735	1.001442159	2.47E-05	0.000518662	ERAP2
5	96875939	96919716	+ 7422	
protein_coding	endoplasmic reticulum aminopeptidase 2 [Source:HGNC			
Symbol;Acc:HGNC:29499]	-	1046 958	1547 813	522
520	7.707356495	5.690868063	9.655434443	
5.296278476	3.064842425	3.270607509		
ENSG00000154319	77.51643227	71.37523785	329.5180662	
48.21975466	18.27719755	9.812155195	159.4699121	
25.43636913	2.651538036	2.50E-05	0.000522964	
FAM167A 8	11421463	11475908	- 5076	
protein_coding	family with sequence similarity 167 member A			
[Source:HGNC Symbol;Acc:HGNC:15549]	-	67 77		337
48	20 10	0.721851564	0.66881048	
3.075464676	0.45721539	0.171698689	0.091965391	
ENSG00000255874	150.4050178	88.06035838	127.1137941	
40.18312888	16.44947779	35.3237587	121.8597234	
30.65212179	1.993200472	2.53E-05	0.000528681	
LINC00346	13 110863987	110870251	-	6265
lincRNA	long intergenic non-protein coding RNA 346			
[Source:HGNC Symbol;Acc:HGNC:27492]	-	130 95		130
40	18 36	1.134793892	0.668553994	
0.961224281	0.30870249	0.125201643	0.268242422	
ENSG00000261786	240.6480285	215.0526647	268.8945644	
59.2701151	87.73054823	125.5955865	241.5317526	
90.86541661	1.409920594	2.54E-05	0.000530275	
AC006058.1	3 44117299	44122365	+ 5067	
lincRNA	novel transcript			
59	96 128	2.244952433	2.01869654	275
2.514109826	0.56299213	0.82561757	1.179247872	
ENSG00000101160	2545.315687	3164.611195	3918.038254	
1701.755508	2083.600521	2065.458668	3209.321712	
1950.271566	0.718764558	2.56E-05	0.000533789	CTSZ
20	58995185	59007247	- 2038	
protein_coding	cathepsin Z [Source:HGNC Symbol;Acc:HGNC:2547]			-
2200	3414 4007	1694 2280	2105 59.03549566	
73.85727755	91.07886681	40.18930008	48.75164395	
48.2163084				
ENSG00000112893	769.3795144	688.7246976	820.3728712	
464.1151386	362.8023713	472.9458804	759.4923611	
433.2877968	0.810056082	2.56E-05	0.000534045	MAN2A1
5	109689366	109869625	+ 11815	
protein_coding	mannosidase alpha class 2A member 1 [Source:HGNC			

Symbol;Acc:HGNC:6824]	-	665	743	839	462	397
482	3.078099342	2.772611663		3.289506059		
1.890642717	1.464250492	1.904405154				
ENSG00000160469	177.0151364	269.742782		192.626288		
477.1746555	371.0271102	479.814389		213.1280688		
442.6720516	-1.052075587	2.58E-05		0.000535848		BRSK1
19	55282072	55312533		+	3841	
protein_coding	BR serine/threonine kinase 1	[Source:HGNC				
Symbol;Acc:HGNC:18994]	-	153	291	197	475	406
489	2.178421108	3.340278205		2.375879306		
5.979302411	4.606173836	5.943066472				
ENSG00000120539	732.3567407	565.4401959		680.5476976		
138.6317946	390.2181677	303.1955955		659.4482114		
277.3485193	1.248192937	2.62E-05		0.000544184		MASTL
10	27154824	27186924		+	3631	
protein_coding	microtubule associated serine/threonine kinase like	[Source:HGNC				
Symbol;Acc:HGNC:19042]	-			633	610	696
138	427	309	9.533934718	7.406918125		
8.879437332	1.837612998	5.124602969		3.972631358		
ENSG00000078804	686.0782737	596.0295836		733.3488121		
382.7443026	350.0083331	417.0165958		671.8188898		
383.2564105	0.80977004	2.62E-05		0.000544213		
TP53INP2	20	34704290	34713439	+		4228
protein_coding	tumor protein p53 inducible nuclear protein 2	[Source:HGNC				
Symbol;Acc:HGNC:16104]	-			593	643	750
381	383	425	7.670336685	6.705172455		
8.217292392	4.357036654	3.947502312		4.692453604		
ENSG00000185585	652.5263851	480.160691		962.1536415		
308.4055142	310.7123583	385.6176992		698.2802392		
334.9118572	1.060053132	2.66E-05		0.000550867		
OLFML2A	9	124777158	124814885	+	6746	
protein_coding	olfactomedin like 2A	[Source:HGNC				
Symbol;Acc:HGNC:27270]	-	564	518	984	307	340
393	4.572223799	3.385457615		6.756957968		
2.200357536	2.196297554	2.719519952				
ENSG00000139722	846.8959466	944.5632125		865.3515983		
1342.116505	1334.235421	1413.931564		885.6035858		
1363.42783	-0.62210202	2.67E-05		0.000553168		VPS37B
12	122865328	122896444		-	5953	
protein_coding	"VPS37B, ESCRT-I subunit	[Source:HGNC				
Symbol;Acc:HGNC:25754]"	-	732	1019	885	1336	1460
1441	6.724653497	7.546963671		6.886679059		
10.85105069	10.6874863	11.29988787				
ENSG00000203666	415.3492416	334.6293618		484.9880144		
216.988896	163.5809181	215.8674143		411.6555393		
198.8124094	1.050469179	2.70E-05		0.000558621		EFCAB2
1	244969705	245127164		+	8607	
protein_coding	EF-hand calcium binding domain 2	[Source:HGNC				
Symbol;Acc:HGNC:28166]	-	359	361	496	216	179
220	2.281063411	1.8492233		2.669514778		

1.213397692	0.906274636	1.19321008					
ENSG00000166173	817.9719047	1075.263323	731.3932153				
1405.404933	1704.348671	1363.889572	874.8761478				
1491.214392	-0.768961218	2.72E-05	0.000560756	LARP6			
15	70829130	70854159	-	5554			
protein_coding	La ribonucleoprotein domain family member 6						
[Source:HGNC Symbol;Acc:HGNC:24012]	-	707	1160	748			
1399	1865	1390	6.961586939	9.208440193			
6.238758553	12.17903996	14.63293888	11.68301571				
ENSG00000099821	2391.439784	3263.794967	2735.879968				
4812.934262	4026.46662	4148.579216	2797.03824				
4329.326699	-0.629829707	2.72E-05	0.000561251	POLRMT			
19	617224	633604	-	5124	protein_coding	RNA	
polymerase mitochondrial	[Source:HGNC Symbol;Acc:HGNC:9200]			-			
2067	3521	2798	4791	4406	4228	22.06104438	
30.29638855	25.2953705	45.20830937	37.47088664				
38.51872413							
ENSG00000183876	129.5797077	164.0703519	302.1397106				
63.28842799	28.3296562	75.553595	198.5965901				
55.72389306	1.836625228	2.76E-05	0.000568568	ARSI			
5	150296343	150339307	-	3269			
protein_coding	arylsulfatase family member I [Source:HGNC						
Symbol;Acc:HGNC:32521]	-	112	177	309	63	31	
77	1.873690327	2.387219227	4.378708302				
0.931808881	0.413242872	1.099567362					
ENSG00000160957	937.1389573	1240.260626	1602.611604				
592.701151	551.971366	840.9017002	1260.003729				
661.8580724	0.929499732	2.82E-05	0.000579228	RECQL4			
8	144511288	144517845	-	4236			
protein_coding	RecQ like helicase 4 [Source:HGNC						
Symbol;Acc:HGNC:9949]	-	810	1338	1639	590	604	
857	10.45740144	13.92624784	17.92360886				
6.734374698	6.21354696	9.444324622					
ENSG00000263513	99.49870411	131.627062	130.0471893				
29.13276844	46.60685375	18.64309487	120.3909852				
31.46090569	1.933915556	2.82E-05	0.000579228	FAM72C			
1	143955364	143971965	-	2297			
protein_coding	family with sequence similarity 72 member C						
[Source:HGNC Symbol;Acc:HGNC:30602]	-	86	142	133			
29	51	19	2.047538935	2.725594895			
2.682212002	0.610433303	0.967537438	0.386134531				
ENSG0000008083	443.1163218	473.672033	374.4967934				
983.4820794	800.5412526	617.1845617	430.4283827				
800.4026312	-0.894857029	2.84E-05	0.000581228	JARID2			
6	15246296	15522040	+	6015			
protein_coding	jumonji and AT-rich interaction domain containing 2						
[Source:HGNC Symbol;Acc:HGNC:6196]	ARID	383	511	383			
979	876	629	3.482233226	3.745581285			
2.949616799	7.869520601	6.346394607	4.881587178				
ENSG00000077232	2658.697931	2215.413227	2433.740258				

1799.199596	1441.157027	1493.410021	2435.950472	
1577.922214	0.626371804	2.88E-05	0.000589404	
DNAJC10 2	182716041	182794464	+ 21835	
protein_coding	DnaJ heat shock protein family (Hsp40) member C10			
[Source:HGNC Symbol;Acc:HGNC:24637]	-	2298	2390	2489
1791	1577	1522	5.755612417	4.825903825
5.280489169	3.965916865	3.147292413	3.253924651	
ENSG00000186472	345.931541	357.8031404	116.3580115	
1273.805186	1644.947779	914.4928641	273.364231	
1277.74861	-2.225015614	2.93E-05	0.000598072	PCL0
7	82754013	83162930	- 22873	
protein_coding	piccolo presynaptic cytomatrix protein [Source:HGNC			
Symbol;Acc:HGNC:13406]	-	299	386	119 1268 1800
932	0.714895842	0.744043167	0.24100513	
2.680385995	3.429319689	1.902123969		
ENSG00000120833	93.71389573	101.9646255	72.3570828	
20.09156444	21.93263706	23.54917247	89.34520134	
21.85779132	2.030943959	2.95E-05	0.000602585	SOCS2
12	93569814	93583487	+ 6776	
protein_coding	suppressor of cytokine signaling 2 [Source:HGNC			
Symbol;Acc:HGNC:19382]	-	81	110	74 20 24
24	0.65374192	0.715736633	0.505895456	
0.14271112	0.154346378	0.165342264		
ENSG00000136997	1183.571794	1447.897682	1068.733669	
2000.11524	2171.331069	1766.187935	1233.401048	
1979.211415	-0.682040625	2.98E-05	0.000605894	MYC
8	127735434	127741434	+ 3001	
protein_coding	"MYC proto-oncogene, bHLH transcription factor			
[Source:HGNC Symbol;Acc:HGNC:7553]"	bHLH	1023	1562	1093
1991	2376	1800	18.64250855	22.94821933
16.87161367	32.07794077	34.50158434	27.99964632	
ENSG00000134369	4573.469504	3098.797664	5076.729377	
2680.214696	2513.114663	2570.784661	4249.665515	
2588.038007	0.715367459	2.98E-05	0.000605894	NAV1
1	201622885	201826969	+ 22453	
protein_coding	neuron navigator 1 [Source:HGNC Symbol;Acc:HGNC:15989]			
-	3953	3343	5192	2668 2750 2620
9.628245398	6.564413927	10.71180759	5.745299396	
5.337242249	5.447195354			
ENSG00000198355	983.4174244	1827.94765	1305.360886	
2451.170862	2372.380242	2400.053161	1372.241987	
2407.868088	-0.810345117	2.98E-05	0.000606545	PIM3
22	49960513	49964080	+ 2461	
protein_coding	"Pim-3 proto-oncogene, serine/threonine kinase			
[Source:HGNC Symbol;Acc:HGNC:19310]"	-	850	1972	1335
2440	2596	2446	18.88869808	35.32882999
25.12882071	47.9379468	45.96758334	46.39710412	
ENSG00000266028	1333.976812	1221.721604	1712.125027	
707.2230683	874.5639027	933.135959	1422.607814	
838.3076433	0.762886826	3.02E-05	0.000612304	SRGAP2

1	206203345	206464443	+	15675	
protein_coding	SLIT-ROBO Rho GTPase activating	protein 2	[Source:HGNC		
Symbol;Acc:HGNC:19751]	-	1153 1318	1751 704	957	
951	4.022689117	3.707164168	5.174650856		
2.171532463	2.660498302	2.832167946			
ENSG00000166825	1037.794623	807.3744437	1197.80306		
398.8175541	545.5743468	665.2641222	1014.324042		
536.5520077	0.918348139	3.03E-05	0.000612765	ANPEP	
15	89784889	89815401	-	4871	
protein_coding	"alanyl aminopeptidase, membrane	[Source:HGNC			
Symbol;Acc:HGNC:500]"	-	897 871	1225 397	597	
678	10.07091722	7.883770684	11.64985218		
3.940701994	5.340904338	6.497669241			
ENSG00000170522	1065.561703	924.1702874	873.1739856		
442.0144177	646.0989333	550.4619064	954.3019921		
546.1917525	0.804065846	3.03E-05	0.000612765	ELOVL6	
4	110045846	110199199	-	7297	
protein_coding	ELOVL fatty acid elongase 6	[Source:HGNC			
Symbol;Acc:HGNC:15829]	-	921 997	893 440	707	
561	6.902556921	6.023997321	5.669040615		
2.91547651	4.222150067	3.588926389			
ENSG00000116863	1368.685662	1876.149109	1675.946485		
2527.518807	2337.653566	3033.918386	1640.260419		
2633.030253	-0.682178675	3.03E-05	0.000612765		
ADPRHL2 1	36088875	36093932	+	1668	
protein_coding	ADP-ribosylhydrolyase like 2	[Source:HGNC			
Symbol;Acc:HGNC:21304]	-	1183 2024	1714 2516	2558	
3092	38.7867518	53.49933945	47.60112612		
72.93161101	66.82871209	86.53453709			
ENSG00000179431	686.0782737	1127.172587	1106.867807		
1592.256482	1741.816926	1745.582409	973.3728894		
1693.218606	-0.797612505	3.03E-05	0.000612765	FJX1	
11	35618419	35620868	+	2450	
protein_coding	four jointed box 1	[Source:HGNC			
Symbol;Acc:HGNC:17166]	-	593 1216	1132 1585	1906 1779	
13.23680959	21.88272731	21.4034015	31.27983105		
33.90122642	33.89658135				
ENSG00000006576	1900.888033	1718.567415	1922.351686		
1044.761351	1358.909638	1137.228787	1847.269045		
1180.299925	0.645806814	3.08E-05	0.000621244	PHTF2	
7	77798792	77957503	+	8646	
protein_coding	putative homeodomain transcription factor 2	[Source:HGNC			
Symbol;Acc:HGNC:13411]	-		1643 1854	1966	
1040	1487 1159	10.39242849	9.454279919		
10.53345243	5.81593206	7.494701408	6.257692821		
ENSG00000167671	2033.938626	2810.515859	2238.180575		
3287.984521	3766.930415	4056.344957	2360.878353		
3703.753298	-0.649294078	3.14E-05	0.000632417	UBXN6	
19	4444999 4457822	-	5275	protein_coding	UBX
domain protein 6	[Source:HGNC	Symbol;Acc:HGNC:14928]	-	1758	

3032	2289	3273	4122	4134	18.22598966	
25.34198859	20.10137587		30.00024199		34.05211734	
36.58424057						
ENSG00000110031	1189.356603		1065.066861		708.9038517	
1852.442241	1835.030634		1506.165822		987.7757717	
1731.212899	-0.810126392		3.15E-05		0.000633334	LPXN
11	58526871		58578220		- 2467	
protein_coding	leupaxin [Source:HGNC Symbol;Acc:HGNC:14061]				-	
1028	1149	725	1844	2008	1535	22.78865418
20.53453332		13.61354756		36.14040239		35.46934403
29.04592865						
ENSG00000103316	34.70885027		87.13340724		33.24514615	
246.1216644	213.8432113		111.8585692		51.69580122	
190.607815	-1.876889905		3.17E-05		0.000637736	CRYM
16	21238874		21303083		- 3782	
protein_coding	crystallin mu [Source:HGNC Symbol;Acc:HGNC:2418]					
-	30	94	34	245	234	114
0.43380489	1.095822686		0.416447106		3.132173251	
2.69620513	1.407114255					
ENSG00000169957	584.2656462		769.3694469		869.262792	
1334.079879	1184.362401		1230.444261		740.9659617	
1249.628847	-0.752861161		3.19E-05		0.000639032	ZNF768
16	30524001		30526821		- 2395	
protein_coding	zinc finger protein 768 [Source:HGNC					
Symbol;Acc:HGNC:26273]	zf-C2H2	505	830	889	1328	1296
1254	11.53136113		15.27940817		17.19486217	
26.80981232	23.58077539		24.442074			
ENSG00000106012	1066.718665		1116.049174		1309.272079	
2129.705831	1626.670582		1809.361418		1164.013306	
1855.245943	-0.672061244		3.21E-05		0.00064232	IQCE
7	2558972	2614734	+	9240	protein_coding	IQ
motif containing	E [Source:HGNC Symbol;Acc:HGNC:29171]				-	922
1204	1339	2120	1780	1844	5.456996341	
5.744979372	6.712913663		11.09341107		8.394727997	
9.316118012						
ENSG00000204256	4047.051942		5439.349294		4913.437041	
7590.593046	6681.229564		7285.525232		4799.946092	
7185.782614	-0.581852147		3.25E-05		0.000650337	BRD2
6	32968660		32981505		+ 7337	
protein_coding	bromodomain containing 2 [Source:HGNC					
Symbol;Acc:HGNC:1103]	-		3498	5868	5025	7556
7425	26.07329983		35.26188657		31.7263421	7311
49.79372846	43.42270384		47.2415322			
ENSG00000164916	2042.037358		2315.52395		2683.078854	
4429.185381	3132.71166		3676.614551		2346.880054	
3746.170531	-0.674326822		3.28E-05		0.000654801	FOXK1
7	4682309	4771443	+	13093	protein_coding	
forkhead box K1	[Source:HGNC Symbol;Acc:HGNC:23480]				Fork	1765
2498	2744	4409	3428	3747	7.372253403	
8.411766799	9.70839404		16.28178994		11.40933266	

13.35951097					
ENSG00000104679	802.9314029	913.9738249	967.0426336		
1374.263008	1400.947192	1380.570236	894.6492871		
1385.260145	-0.630164982	3.31E-05	0.00066021	R3HCC1	
8	23270120	23296279	+ 2630		
protein_coding	R3H domain and coiled-coil containing 1 [Source:HGNC				
Symbol;Acc:HGNC:27329]	-	694 986	989 1368	1533	
1407	14.43106672	16.52932521	17.41979336		
25.14962799	25.40066016	24.97378593			
ENSG00000092964	2602.006809	2482.375155	2302.71527		
1275.814342	1847.824672	1524.808917	2462.365745		
1549.482644	0.667873249	3.33E-05	0.000662766	DPYSL2	
8	26514022	26658178	+ 7305		
protein_coding	dihydropyrimidinase like 2 [Source:HGNC				
Symbol;Acc:HGNC:3014]	-	2249 2678	2355 1270	2022	
1554	16.83697038	16.16308699	14.93389684		
8.405909639	12.06200568	9.930630663			
ENSG00000125844	2306.981581	2724.309403	4151.732075		
1834.359833	1203.553459	1900.614461	3061.007686		
1646.175918	0.895249025	3.34E-05	0.000665207	RRBP1	
20	17613678	17682295	- 6980		
protein_coding	ribosome binding protein 1 [Source:HGNC				
Symbol;Acc:HGNC:10448]	-	1994 2939	4246 1826	1317	
1937	15.62300041	18.56428048	28.17909382		
12.64871966	8.222217296	12.95448743			
ENSG00000058056	1604.705844	1674.07376	1859.772588		
1182.388567	1156.946605	985.1403815	1712.850731		
1108.158518	0.628371515	3.35E-05	0.000665207	USP13	
3	179652755	179789401	+ 8440		
protein_coding	ubiquitin specific peptidase 13 [Source:HGNC				
Symbol;Acc:HGNC:12611]	-	1387 1806	1902 1177	1266	
1004	8.987289411	9.43429077	10.43927941		
6.742721666	6.536569103	5.553123114			
ENSG00000126432	1881.219685	2170.919572	2123.77816		
2900.217327	2877.744754	3909.16263	2058.639139		
3229.04157	-0.649134294	3.40E-05	0.000675923	PRDX5	
11	64318088	64321811	+ 893		
protein_coding	peroxiredoxin 5 [Source:HGNC Symbol;Acc:HGNC:9355]				
-	1626 2342	2172 2887	3149 3984		
99.57809075	115.6296976	112.6706547	156.3135195		
153.6667122	208.2638568				
ENSG00000108509	721.9440856	1021.500157	1004.198973		
1562.119135	1445.726326	1495.372452	915.8810721		
1501.072638	-0.71164354	3.41E-05	0.000675932	CAMTA2	
17	4967992 4987652	- 5999	protein_coding		
calmodulin binding transcription activator 2	[Source:HGNC				
Symbol;Acc:HGNC:18807]	CG-1	624 1102	1027 1555	1582	
1524	5.688535078	8.099098681	7.930380722		
12.53293386	11.4917512	11.85911119			
ENSG00000062485	5060.55037	4647.73302	5254.688688		

3772.191224	3299.948017	3301.790223	4987.657359	
3457.976488	0.528445469	3.42E-05	0.000676233	CS
12	56271699	56300392	- 6402	
protein_coding	citrate synthase [Source:HGNC Symbol;Acc:HGNC:2422]			
-	4374 5014	5374 3755	3611 3365	
37.36438356	34.53048019	38.88520994	28.35929877	
24.57935128	24.53665941			
ENSG00000146112	2574.239728	3091.382055	2986.196363	
4135.84854	4021.897321	4489.061002	2883.939382	
4215.602287	-0.547372276	3.42E-05	0.000676233	
PPP1R18 6	30676389	30687895	- 4599	
protein_coding	protein phosphatase 1 regulatory subunit 18			
[Source:HGNC Symbol;Acc:HGNC:29413]	-	2225	3335	3054
4117	4401 4575	26.45826235	31.9717484	
30.76154038	43.28313148	41.70100837	46.43802325	
ENSG00000176208	901.2731454	812.9361505	792.9945155	
563.5683826	413.0646646	488.6453287	835.7346038	
488.4261253	0.775086495	3.46E-05	0.000684232	ATAD5
17	30831970	30895869	+ 7075	
protein_coding	"ATPase family, AAA domain containing 5 [Source:HGNC			
Symbol;Acc:HGNC:25752]"	-	779 877	811 561	452
498	6.021514358	5.465213182	5.310028669	
3.833872215	2.784008702	3.285859083		
ENSG00000132842	1988.817121	1750.083754	2058.265666	
1185.402302	1290.370147	1350.152555	1932.388847	
1275.308335	0.599312332	3.50E-05	0.000690168	AP3B1
5	78000525	78294755	- 7310	
protein_coding	adaptor related protein complex 3 subunit beta 1			
[Source:HGNC Symbol;Acc:HGNC:566]	-	1719	1888	2105
1180	1412 1376	12.86036256	11.38724254	
13.33942713	7.804873111	8.417360304	8.787130834	
ENSG00000102265	5615.891974	6148.466917	4243.645126	
7839.728445	8304.244706	8311.876665	5336.001339	
8151.949939	-0.611403708	3.50E-05	0.000690168	TIMP1
X	47582313	47586789	+ 1541	
protein_coding	TIMP metalloproteinase inhibitor 1 [Source:HGNC			
Symbol;Acc:HGNC:11820]	-	4854 6633	4340 7804	9087
8471	172.2629364	189.7760122	130.4636566	
244.8588686	256.9664869	256.6126602		
ENSG00000128335	295.0252273	213.1987624	206.3154658	
495.2570635	407.5815053	499.4386994	238.1798185	
467.4257561	-0.97476647	3.60E-05	0.000707928	APOL2
22	36226203	36239954	- 3484	
protein_coding	apolipoprotein L2 [Source:HGNC Symbol;Acc:HGNC:619]			
-	255 230	211 493	446 509	
4.002734153	2.910607524	2.805477337	6.84179393	
5.578472675	6.82002037			
ENSG00000160445	848.0529083	826.8404176	885.885365	
1423.487341	1305.905765	1225.538184	853.592897	
1318.31043	-0.627029774	3.63E-05	0.000712646	ZER1

9	128729786	128772414	-	4370		
protein_coding	zyg-11 related cell cycle regulator [Source:HGNC					
Symbol;Acc:HGNC:30960]	-	733	892	906	1417	1429
1249	9.173123708	8.999479155		9.603935098		
15.6779628	14.24982036	13.34218743				
ENSG00000006125	9688.397072	8538.146958		10328.48467		
6655.330721	6206.022428	7037.277706		9518.3429		
6632.876951	0.521066181	3.64E-05		0.000714697		AP2B1
17	35578046	35726409		+	7587	
protein_coding	adaptor related protein complex 2 subunit beta 1					
[Source:HGNC Symbol;Acc:HGNC:563]	-			8374	9211	10563
6625	6791	7172		60.3611611	53.52672304	
64.49405023	42.21988199	39.0051762		44.12820201		
ENSG00000146247	2260.703114	1948.451298		2119.866966		
1301.933376	1493.24704	1424.724934		2109.673793		
1406.635117	0.584367825	3.65E-05		0.00071607		PHIP
6	78935867	79078236		-	13252	
protein_coding	pleckstrin homology domain interacting protein					
[Source:HGNC Symbol;Acc:HGNC:15673]	-			1954	2102	2168
1296	1634	1452		8.063764669	6.993349651	
7.578448549	4.728515215	5.373153192		5.11483025		
ENSG00000091137	98.34174244	81.57170039		101.6910353		
24.10987733	0	10.79337071		93.86815937	11.63441601	
	3.021152347	3.71E-05		0.000726594	SLC26A4	7
	107660635	107717809		+	5800	protein_coding
	solute carrier family 26 member 4 [Source:HGNC					
Symbol;Acc:HGNC:8818]	-	85	88	104	24	0
11	0.801466999	0.668942265		0.830630361		
0.200071148	0	0.088534131				
ENSG00000138795	697.6478905	642.3771406		900.5523413		
420.918275	460.5853782	376.7867595		746.8591241		
419.4301376	0.832256429	3.78E-05		0.000738817		LEF1
4	108047545	108168956		-	5361	
protein_coding	lymphoid enhancer binding factor 1 [Source:HGNC					
Symbol;Acc:HGNC:6551]	HMG	603	693	921	419	504
384	6.15129022	5.699298259		7.958226194		
3.77893509	4.096786455	3.343731935				
ENSG00000275183	116.8531292	113.0880392		141.7807703		
204.9339573	382.9072886	298.2895179		123.9073129		
295.3769213	-1.253669957	3.82E-05		0.000745656		LENG9
19	54461796	54463711		-	1916	
protein_coding	leukocyte receptor cluster member 9 [Source:HGNC					
Symbol;Acc:HGNC:16306]	-	101	122	145	204	419
304	2.882840282	2.807361139		3.505701652		
5.14796848	9.529653633	7.40668909				
ENSG00000189184	362.1290045	214.1257135		487.9214097		
142.6501075	159.9254785	136.3889572		354.7253759		
146.3215144	1.276760257	3.83E-05		0.000746046		PCDH18
4	137518918	137532494		-	6686	
protein_coding	protocadherin 18 [Source:HGNC Symbol;Acc:HGNC:14268]					

-	313	231	499	142	175	139	
2.560192836	1.523279388		3.457296521		1.02688826		
1.140591877	0.970497596						
ENSG00000187688	85.615164		107.5263323		109.5134226		
222.0117871	227.5511095		245.3038799		100.884973		
231.6222588	-1.196809933		3.83E-05		0.000746071		TRPV2
17	16415542		16437003		+	3410	
protein_coding	transient receptor potential cation channel subfamily						
V member 2 [Source:HGNC	Symbol;Acc:HGNC:18082]		-		74	116	
112	221	249	250	1.186785013	1.49981457		
1.52147948	3.133567911		3.182024842		3.422407079		
ENSG00000149823	2035.095588		2937.508165		2664.500684		
4007.262528	3844.608504		3939.580311		2545.701479		
3930.483781	-0.626136936		3.85E-05		0.000748812		VPS51
11	65089324		65111860		+	4878	
protein_coding	"VPS51, GARP complex subunit [Source:HGNC						
Symbol;Acc:HGNC:1172]"	-		1759	3169	2725	3989	4207
4015	19.72053788		28.64272947		25.87778894		
39.53879749	37.58281566		38.42286894				
ENSG00000108821	38319.72766		24612.40669		64413.44846		
14697.98397	8874.49327		12084.65034		42448.52761		
11885.70919	1.836490685		3.87E-05		0.000749822		COL1A1
17	50183289		50201632		-	9819	
protein_coding	collagen type I alpha 1 chain [Source:HGNC						
Symbol;Acc:HGNC:2197]"	-		33121	26552	65876	14631	9711
12316	184.4721857		119.2240683		310.786694		
72.04568365	43.0978189		58.55290626				
ENSG00000048740	76.3594706		110.3071858		144.7141656		
39.17855066	17.36333767		25.51160351		110.460274		
27.35116395	2.018631849		3.87E-05		0.000749822		CELF2
10	10798397		11336675		+	10978	
protein_coding	CUGBP Elav-like family member 2 [Source:HGNC						
Symbol;Acc:HGNC:2550]"	-		66	119	148	39	19
26	0.328787594		0.477922738		0.624512226		
0.171768134	0.075420424		0.110559523				
ENSG00000179833	784.4200161		750.8304241		626.7687848		
1272.800607	1101.201152		1112.698399		720.673075		
1162.233386	-0.689805606		3.87E-05		0.000749822		
SERTAD2 2	64631621		64751005		-	6274	
protein_coding	SERTA domain containing 2 [Source:HGNC						
Symbol;Acc:HGNC:30784]"	-		678	810	641	1267	1205
1134	5.909896733		5.692125443		4.732776228		
9.764124694	8.369531154		8.437515352				
ENSG00000074416	2192.442375		2767.876107		2085.644022		
3346.250058	3512.877369		3950.373681		2348.654168		
3603.167036	-0.617167478		3.88E-05		0.000751408		MGLL
3	127689062		128052190		-	11849	
protein_coding	monoglyceride lipase [Source:HGNC						
Symbol;Acc:HGNC:17038]"	-		1895	2986	2133	3331	3844
4026	8.74625686		11.11071639		8.338954646		

13.5923375	14.13709828	15.86127544			
ENSG00000101596	2866.951032	2506.475885	2667.434079		
1866.506337	1794.820799	1872.159211	2680.286999		
1844.495449	0.538975186	3.89E-05	0.000751842	SMCHD1	
18	2655738	2805017	+	12435	protein_coding
structural maintenance of chromosomes flexible hinge domain containing					
1 [Source:HGNC Symbol;Acc:HGNC:29090]	-		2478	2704	2728
1858	1964	1908	10.89808586	9.587267734	
10.16251108	7.22438923	6.882627915	7.162730592		
ENSG00000176994	1504.050178	1328.320985	1464.742027		
2737.475655	2101.877718	1964.39347	1432.371064		
2267.915614	-0.663075127	3.99E-05	0.000770408	SMCR8	
17	18315310	18328055	+	8279	
protein_coding "Smith-Magenis syndrome chromosome region, candidate 8					
[Source:HGNC Symbol;Acc:HGNC:17921]"	-		1300	1433	1498
2725	2300	2002	8.587370137	7.631365701	
8.38178249	15.91438428	12.1062197	11.28839575		
ENSG00000184867	947.5516124	853.7220007	569.0786782		
1284.855546	1680.588315	1278.523822	790.1174304		
1414.655894	-0.841108114	4.00E-05	0.000770408	ARMCX2	
X	101655281	101659891	-	3589	
protein_coding armadillo repeat containing X-linked 2 [Source:HGNC					
Symbol;Acc:HGNC:16869]	-	819	921	582	1279
1303	12.47972904	11.31410305	7.51193778	1839	
17.23051676	22.32887635	16.94794294			
ENSG00000205208	1286.541383	920.4624829	1070.689266		
536.4447706	767.642297	535.7436736	1092.564377		
613.2769137	0.831987015	4.01E-05	0.000771552		
C4orf46 4	158666679	158672255	-	3730	
protein_coding chromosome 4 open reading frame 46 [Source:HGNC					
Symbol;Acc:HGNC:27320]	-	1112	993	1095	534
546	16.30386866	11.73746674	13.59902409	840	
6.922032622	9.813615812	6.833289913			
ENSG00000132128	3509.064762	3533.537749	3086.9096		
5245.907475	4539.142011	4834.448864	3376.504037		
4873.166117	-0.529331202	4.01E-05	0.000771636	LRR41	
1	46261196	46303608	-	8606	
protein_coding leucine rich repeat containing 41 [Source:HGNC					
Symbol;Acc:HGNC:16917]	-	3033	3812	3157	5222
4927	19.27373047	19.52924745	16.99322063	4967	
29.3384214	25.15077755	26.72558722			
ENSG00000182054	1550.328645	1532.250236	2164.845693		
1000.559909	1078.354655	1133.303925	1749.141525		
1070.739496	0.708178176	4.04E-05	0.000775969	IDH2	
15	90083045	90102504	-	2814	
protein_coding "isocitrate dehydrogenase (NADP(+)) 2, mitochondrial					
[Source:HGNC Symbol;Acc:HGNC:5383]"	-		1340	1653	2214
996	1180	1155	26.04206497	25.89898347	
36.44651262	17.11340632	18.27328013	19.16037157		
ENSG00000117592	5254.919931	4478.100961	5036.639642		

2780.672519	3479.064553	3588.305155	4923.220178	
3282.680742	0.584540069	4.06E-05	0.000778329	PRDX6
1	173477266	173488807	+ 2367	
protein_coding	peroxiredoxin 6	[Source:HGNC	Symbol;Acc:HGNC:16753]	
-	4542 4831	5151 2768	3807 3657	
104.9406101	89.98554214	100.8081739	56.54172374	
70.08792726	72.12282647			
ENSG00000144366	269.5720704	215.9796158	217.0712484	
523.3852537	477.034856	370.8994664	234.2076449	
457.1065253	-0.966272627	4.07E-05	0.000779262	GULP1
2	188291669	188595931	+ 11979	
protein_coding	"GULP, engulfment adaptor PTB domain containing 1			
[Source:HGNC	Symbol;Acc:HGNC:18649]"	-	233 233	222
521	522 378	1.063726721	0.857569475	
0.858489258	2.102898808	1.898928164	1.473049262	
ENSG00000170604	902.4301071	1896.542034	1940.929856	
3235.746453	2671.212422	3063.354852	1579.967332	
2990.104576	-0.919534178	4.10E-05	0.000784419	
IRF2BP1 19	45883607	45886170	- 2564	
protein_coding	interferon regulatory factor 2 binding protein 1			
[Source:HGNC	Symbol;Acc:HGNC:21728]	-	780 2046	1985
3221	2923 3122	16.63685742	35.18208443	
35.86286208	60.73987873	49.67860501	56.8408958	
ENSG00000179134	3719.631787	3937.688446	3972.794965	
6019.432706	4872.700866	6094.329591	3876.705066	
5662.154388	-0.546370218	4.16E-05	0.000795402	SAMD4B
19	39342396	39385710	+ 8057	
protein_coding	sterile alpha motif domain containing 4B	[Source:HGNC		
Symbol;Acc:HGNC:25492]	-	3215 4248	4063 5992	5332
6211	21.82239067	23.24583241	23.36016546	
35.95834191	28.83867979	35.98605186		
ENSG00000156603	736.9845874	907.4851669	819.3950727	
1300.928798	1182.534681	1442.386814	821.2882757	
1308.616764	-0.671252733	4.17E-05	0.000795402	MED19
11	57703714	57712323	- 1877	
protein_coding	mediator complex subunit 19	[Source:HGNC		
Symbol;Acc:HGNC:29600]	-	637 979	838 1295	1294
1470	18.55965387	22.99600409	20.68150798	
33.35851524	30.04198338	36.55940323		
ENSG00000106070	821.4427898	739.7070104	847.7512268	
497.2662199	496.2259134	484.7204666	802.967009	
492.7375333	0.704276746	4.21E-05	0.000803305	GRB10
7	50590063	50793462	- 9795	
protein_coding	growth factor receptor bound protein 10	[Source:HGNC		
Symbol;Acc:HGNC:4564]	-	710 798	867 495	543
494	3.964136689	3.591967587	4.100313971	
2.443441665	2.415761118	2.354336547		
ENSG00000186642	129.5797077	195.5866907	128.0915925	
265.2086506	338.1281546	433.6972596	151.085997	
345.6780216	-1.192115161	4.23E-05	0.000805164	PDE2A

11	72576141	72674591	-	7182	
protein_coding	phosphodiesterase 2A [Source:HGNC				
Symbol;Acc:HGNC:8777]	-	112	211	131	264 370
442	0.852839554	1.29530193	0.844944826		
1.777295915	2.244992637	2.872915844			
ENSG00000106089	983.4174244	1107.706613	989.5319972		
1715.819603	1548.992492	1454.1614	1026.885345		
1572.991165	-0.614847161	4.34E-05	0.00082543	STX1A	
7	73699206	73719672	-	3693	
protein_coding	syntaxin 1A [Source:HGNC Symbol;Acc:HGNC:11433] -				
850	1195	1012	1708	1695	1482 12.58735065
14.26666802	12.69415102	22.36195531	20.00087486		
18.73332777					
ENSG00000090520	1548.014722	1229.137213	1717.991817		
905.124978	860.8560045	1005.745907	1498.381251		
923.9089633	0.697450658	4.36E-05	0.00082818		
DNAJB11 3	186567403	186585800	+	5731	
protein_coding	DnaJ heat shock protein family (Hsp40) member B11				
[Source:HGNC Symbol;Acc:HGNC:14889]	-		1338	1326	1757
901	942	1025	12.76792779	10.20110161	
14.20181362	7.601435224	7.162738434	8.349096732		
ENSG00000184281	433.8606284	667.4048214	667.8363182		
1174.351942	891.0133805	1111.717184	589.7005893		
1059.027502	-0.843075859	4.37E-05	0.00082883	TSSC4	
11	2400488	2403878	+	2659	protein_coding tumor
suppressing subtransferable candidate 4 [Source:HGNC					
Symbol;Acc:HGNC:12386]	-	375	720	683	1169 975
1133	7.712721385	11.93845473	11.89884541		
21.25677572	15.97882631	19.89104539			
ENSG00000144724	2846.125722	2801.246348	3890.659898		
2260.301	1830.461334	1900.614461	3179.343989		
1997.125598	0.671010458	4.38E-05	0.00082883	PTPRG	
3	61561569	62297613	+	14629	
protein_coding	"protein tyrosine phosphatase, receptor type G				
[Source:HGNC Symbol;Acc:HGNC:9671]"	-		2460	3022	3979
2250	2003	1937	9.196343402	9.10780614	
12.59974498	7.436508774	5.966572294	6.181032351		
ENSG00000117640	1236.792031	1065.993812	1017.888151		
1554.082509	1875.240468	1713.202297	1106.891332		
1714.175092	-0.631710626	4.41E-05	0.000833741	MTFR1L	
1	25818640	25832942	+	5817	
protein_coding	mitochondrial fission regulator 1 like [Source:HGNC				
Symbol;Acc:HGNC:28836]	-	1069	1150	1041	1547 2052
1746	10.05016875	8.71631134	8.289992192		
12.85856387	15.37223059	14.0117123			
ENSG00000142856	1056.30601	850.0141962	964.1092383		
524.3898319	662.5484111	522.9878719	956.8098148		
569.9753716	0.746375004	4.42E-05	0.000835931		
ITGB3BP 1	63440770	63593721	-	5459	
protein_coding	integrin subunit beta 3 binding protein [Source:HGNC				

Symbol;Acc:HGNC:6157]	-	913	917	986	522	725
533	9.146446448	7.406110702		8.366932714		
4.623369729	5.787400134	4.557851283				
ENSG00000138696	369.0707746	283.6470491		158.4033434		
625.8522323	767.642297	453.32157		270.3737224		
615.6053664	-1.18905173	4.47E-05		0.000844498		BMPR1B
4	94757968	95158448		+	6312	
protein_coding	bone morphogenetic protein receptor type 1B					
[Source:HGNC Symbol;Acc:HGNC:1077]	-			319	306	162
623	840	462	2.763875051	2.137412743		
1.188914107	4.77223996		5.799237481	3.416811508		
ENSG00000111602	1542.229914		1662.023396	1831.416433		
1244.672417	799.6273927		977.2906574	1678.556581		
1007.196822	0.737437937		4.49E-05	0.000846744		
TIMELESS	12	56416373	56449403	-		5818
protein_coding	timeless circadian regulator					
[Source:HGNC Symbol;Acc:HGNC:11813]	-	1333	1793	1873	1239	875
996	12.53000214		13.58753046	14.91305145		
10.2967177	6.553796225		7.991561709			
ENSG00000106266	1843.039949		2074.516653	2109.111184		
2809.805287	2813.774563		3271.372542	2008.889262		
2964.98413	-0.561314075		4.53E-05	0.000852144		SNX8
7	2251770	2354318	-	5773		protein_coding
sorting nexin 8	[Source:HGNC Symbol;Acc:HGNC:14972]					1593
2238	2157	2797	3079	3334	15.09068421	
17.0919842	17.30816567		23.42567563	23.24163782		
26.95939077						
ENSG00000065154	1460.085635		1535.95804	1630.967758		
934.2577465	898.3242595		1135.266356	1542.337144		
989.2827873	0.640960355		4.57E-05	0.0008587		OAT
10	124397303		124418976	-	3388	
protein_coding	ornithine aminotransferase					
[Source:HGNC Symbol;Acc:HGNC:8091]	-	1262	1657	1668	930	983
1157	20.37092107		21.56319274	22.80631405		
13.27213417	12.64354079		15.94174996			
ENSG00000101384	1870.80703		1625.872301	2818.015035		
1431.523966	922.9984762		1104.848675	2104.898122		
1153.123706	0.868502259		4.70E-05	0.000883402		JAG1
20	10637684		10673999	-	9298	
protein_coding	jagged 1					
[Source:HGNC Symbol;Acc:HGNC:6188]	-					
1617	1754	2882	1425	1010	1126	9.510759304
8.317139871	14.35842786		7.410142146	4.733587721		
5.653206954						
ENSG0000011132	313.5366141		429.1783782	438.0536904		
792.6122172	709.1552649		620.1282083	393.5895609		
707.2985635	-0.843995336		4.76E-05	0.000892287		APBA3
19	3750819	3761699	-	5556		protein_coding
amyloid beta precursor protein binding family A member 3	[Source:HGNC Symbol;Acc:HGNC:580]					
632	2.667483652		3.674114715	3.7352376		776

6.866192619	6.086366239	5.310077713				
ENSG00000166881	1822.214639	1500.733897	1766.881738			
1215.539649	1032.661661	1040.088451	1696.610091			
1096.096587	0.63012625	4.77E-05	0.000893872	NEMP1		
12	57055643	57088063	- 5708			
protein_coding	nuclear envelope integral membrane protein 1					
[Source:HGNC Symbol;Acc:HGNC:29001]	-	1575	1619	1807		
1210	1130	1060	15.09007181	12.50537854		
14.66481687	10.24949864	8.626866487	8.668978716			
ENSG00000187164	594.6783013	299.4052185	374.4967934			
196.8973315	193.738294	187.4121642	422.8601044			
192.6825966	1.132135639	4.81E-05	0.000900562	SHTN1		
10	116881482	117126586	- 8247			
protein_coding	shootin 1 [Source:HGNC Symbol;Acc:HGNC:29319]			-		
514	323	383	196	212	191	3.408488532
1.72679382	2.151321092	1.149109178	1.120207469			
1.081143667						
ENSG00000167889	298.4961123	355.9492381	447.8316746			
197.9019097	112.4047649	181.5248711	367.425675			
163.9438486	1.166226788	4.86E-05	0.000908138	MGAT5B		
17	76868456	76950393	+ 6386			
protein_coding	"alpha-1,6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase B [Source:HGNC Symbol;Acc:HGNC:24140]"					
-	258	384	458	197	123	185
2.209456749	2.651162012	3.322301327	1.491552445			
0.839333959	1.352349205					
ENSG00000089006	2227.151226	1957.720809	2028.931714			
1439.560592	1313.216644	1448.274107	2071.267916			
1400.350448	0.564572136	4.87E-05	0.000908138	SNX5		
20	17941597	17968980	- 7953			
protein_coding	sorting nexin 5 [Source:HGNC Symbol;Acc:HGNC:14969]					
-	1925	2112	2075	1433	1437	1476
13.23714921	11.70838216	12.08619437	8.711971067			
7.873800076	8.66366021					
ENSG00000085999	622.4453815	591.3948279	711.837247			
361.6481599	416.7201041	289.4585782	641.8924855			
355.9422808	0.850252302	4.88E-05	0.000909564	RAD54L		
1	46247688	46278473	+ 3212			
protein_coding	RAD54 like [Source:HGNC Symbol;Acc:HGNC:9826]			-		
538	638	728	360	456	295	9.16012609
8.757478909	10.49925052	5.41911267	6.186541119			
4.287385306						
ENSG00000071794	3180.487647	2985.709625	2830.726415			
2187.971368	1922.761182	2100.782427	2998.974562			
2070.504992	0.534457613	5.04E-05	0.000938107	HLTF		
3	149030127	149086554	- 6024			
protein_coding	helicase like transcription factor [Source:HGNC Symbol;Acc:HGNC:11099]			-		
2141	24.95654662	23.5743496	22.26209649	2104		
17.48131621	15.22016533	16.59119776				

ENSG00000196235	4296.955664	5326.261255	4610.319532	
6947.662984	6340.35983	7391.496508	4744.51215	
6893.173107	-0.538694374	5.06E-05	0.000940868	SUPT5H
19	39436156	39476670	+ 8568	
protein_coding	"SPT5 homolog, DSIF elongation factor subunit [Source:HGNC Symbol;Acc:HGNC:11469]"			
6916	6938	7533	23.70593855	29.56787556
25.49204609	39.02804017	35.28689421	41.0425698	4715
ENSG00000238227	887.3896053	1266.215258	1504.831762	
2258.291843	1874.326609	2071.345962	1219.478875	
2067.988138	-0.761107413	5.11E-05	0.000948495	
TMEM250	9	136114581	136118863	- 3396
protein_coding	transmembrane protein 250 [Source:HGNC Symbol;Acc:HGNC:31009]			
2111	12.35157657	17.73441944	20.99294626	2051
32.0058851	26.31822385	29.01794061		
ENSG00000130816	6656.00052	7840.152749	9506.156202	
5799.430076	3924.114314	5202.404684	8000.769824	
4975.316358	0.685519681	5.14E-05	0.000953153	DNMT1
19	10133345	10231286	- 9796	
protein_coding	DNA methyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:2976]			
5302	32.1173948	38.06736904	45.97368291	4294
28.49403789	19.10169302	25.26602856		
ENSG00000248323	758.9668593	977.9334536	477.1656271	
1194.443506	2024.199628	1249.087356	738.02198	
1489.243497	-1.012887084	5.18E-05	0.000960403	LUCAT1
5	91054834	91314547	- 16538	
antisense	lung cancer associated transcript 1 [Source:HGNC Symbol;Acc:HGNC:48498]			
1273	2.169279762	2.812570582	1.366908016	2215
3.476162607	5.836457679	3.593283241		
ENSG00000198682	673.3516953	491.2841046	631.6577768	
302.3780448	213.8432113	383.6552681	598.7645256	
299.9588414	0.997342203	5.27E-05	0.000975893	PAPSS2
10	87659613	87747705	+ 4083	
protein_coding	3'-phosphoadenosine 5'-phosphosulfate synthase 2 [Source:HGNC Symbol;Acc:HGNC:8604]			
301	234	391	7.795398433	5.723088314
7.329183477	3.564415571	2.497440069	4.470369417	646
ENSG00000116133	6716.162528	6964.183921	9492.467024	
5385.543848	4132.474366	5221.047779	7724.271158	
4913.021998	0.652915832	5.40E-05	0.000998423	DHCR24
1	54849627	54887271	- 6290	
protein_coding	24-dehydrocholesterol reductase [Source:HGNC Symbol;Acc:HGNC:2859]			
5321	50.47150922	52.6619215	71.49597252	4522
41.20940825	31.32842129	39.49013781		
ENSG00000087111	1119.938902	1406.184881	1691.59126	
795.6259518	880.9609218	878.1878899	1405.905014	

851.5915879	0.723713377	5.41E-05	0.000999187	PIGS
17	28553383	28571872	- 5990	
protein_coding	phosphatidylinositol glycan anchor biosynthesis class			
S [Source:HGNC Symbol;Acc:HGNC:14937]	-	968	1517	1730
792	964 895	8.837781246	11.16587383	
13.37894094	6.392924503	7.013080262	6.97496847	
ENSG00000121005	192.0556382	117.7227949	208.2710626	
55.25180221	61.22861179	68.68508636	172.6831652	
61.72183345	1.483034672	5.42E-05	0.000999647	
CRISPLD1	8 74984515	75034558	+ 4543	
protein_coding	cysteine rich secretory protein LCCL domain			
containing 1 [Source:HGNC Symbol;Acc:HGNC:18206]	-			166
127	213 55	67 70	1.998297127	
1.232522744	2.171897485	0.585357476	0.642673901	
0.719285556				
ENSG00000137494	558.8124894	640.5232383	523.1221526	
1084.94448	821.5600298	965.5160712	574.1526268	
957.3401936	-0.736961469	5.43E-05	0.001000562	
ANKRD42 11	83193739	83260694	+ 6724	
protein_coding	ankyrin repeat domain 42 [Source:HGNC			
Symbol;Acc:HGNC:26752]	-	483 691	535 1080	899
984	3.928385856	4.530898158	3.685772565	
7.765997872	5.826269704	6.831458423		
ENSG00000235655	1041.265508	817.5709062	932.819689	
567.5866954	620.5108568	453.32157	930.5520345	
547.1397074	0.765350225	5.53E-05	0.00101643	
H3F3AP4 2	174719908	174720318	+ 411	
processed_pseudogene	"H3 histone, family 3A, pseudogene 4			
[Source:HGNC Symbol;Acc:HGNC:42980]"	-	900 882		954
565	679 462	119.7554812	94.6151585	
107.5248904	66.46727015	71.99238315	52.47424389	
ENSG00000196352	101.8126275	125.138404	98.75764003	
306.3963577	198.3075934	251.191173	108.5695572	
251.9650414	-1.21278037	5.54E-05	0.00101866	CD55
1	207321376	207386804	+ 5908	
protein_coding	CD55 molecule (Cromer blood group) [Source:HGNC			
Symbol;Acc:HGNC:2665]	-	88 135	101 305	217
256	0.814585918	1.007458673	0.791923705	
2.49609189	1.600581692	2.022765392		
ENSG00000128590	627.0732282	505.1883718	365.6966076	
786.5847478	964.1221707	979.2530884	499.3194025	
909.986669	-0.867278088	5.60E-05	0.001027924	DNAJB9
7	108569568	108574850	+ 2837	
protein_coding	DnaJ heat shock protein family (Hsp40) member B9			
[Source:HGNC Symbol;Acc:HGNC:6968]	-	542 545		374
783	1055 998	10.44803608	8.469760393	
6.106814417	13.34454107	16.20510023	16.421667	
ENSG00000069424	351.7163494	318.8711925	348.0962362	
626.8568105	529.124869	599.5226824	339.5612593	
585.1681207	-0.785408548	5.63E-05	0.00103218	KCNAB2

1	5991466	6101193	+	9534	protein_coding		
potassium voltage-gated channel subfamily A regulatory beta subunit 2							
[Source:HGNC Symbol;Acc:HGNC:6229]							
	624	579	611	1.743785848	1.590806119	304	344 356
1.729725971	3.164540503		2.646439767		2.991659061		
ENSG00000159261	30.08100357		75.08304241		17.60037149		
154.7050462	222.9818101		115.7834313		40.92147249		
164.4900959	-2.001903842		5.68E-05		0.001040565		CLDN14
	21	36460621	36576569		-	2853	
protein_coding	claudin 14 [Source:HGNC Symbol;Acc:HGNC:2035]						
	26	81	18	154	244	118	0.498386522
	1.251748862		0.292262563		2.609877755		3.726890667
	1.930751013						
ENSG00000136518	2315.080313		2236.733103		2464.052009		
1506.867333	1657.741818		1663.160306		2338.621808		
1609.256485	0.539176872		5.84E-05		0.001067848		ACTL6A
	3	179562880	179588408		+	3675	
protein_coding	actin like 6A [Source:HGNC Symbol;Acc:HGNC:24124]						
	-	2001	2413	2520	1500	1814	1695
29.77724114	28.94902468		31.76476547		19.73490918		
21.50990722	21.53071216						
ENSG00000127526	1995.758891		2220.047982		2147.245322		
3093.096346	3044.067252		2929.909541		2121.017398		
3022.357713	-0.51066725		5.88E-05		0.001073567		
SLC35E1 19	16549831		16572382		-	7257	
protein_coding	solute carrier family 35 member E1 [Source:HGNC						
Symbol;Acc:HGNC:20803]							
	2986	12.99950122	14.5506486		14.01772929		3331
20.51416207	20.00212363		19.20784826				
ENSG00000158480	500.9644056		411.5663065		549.5227099		
836.8136589	769.4700168		838.9392691		487.3511407		
815.074315	-0.742373094		5.90E-05		0.001077089		SPATA2
	20	49903391	49915508		-	4270	
protein_coding	spermatogenesis associated 2 [Source:HGNC						
Symbol;Acc:HGNC:14681]							
	855	5.545679081	4.584469134		6.096925613		842
9.432316019	8.592960476		9.347258978				
ENSG00000213923	1004.242735		1488.683532		1258.426562		
1941.849703	1930.072061		2095.87635		1250.450943		
1989.266038	-0.668914733		5.92E-05		0.001079128		CSNK1E
	22	38290691	38318084		-	6246	
protein_coding	casein kinase 1 epsilon [Source:HGNC						
Symbol;Acc:HGNC:2453]							
	2136	7.599980151	11.33646154		9.545067915		2112
14.96342774	14.73501328		15.96413179				
ENSG00000144395	186.2708298		143.6774268		195.5596832		
26.11903377	84.07510872		50.04199149		175.1693133		
53.41204466	1.709733055		5.94E-05		0.001081119		
CCDC150 2	196639554		196763490		+	9683	
protein_coding	coiled-coil domain containing 150 [Source:HGNC						

Symbol;Acc:HGNC:26834]	-	161	155	200	26	92
51	0.909307257	0.705757861	0.956802981			
0.129826884	0.414034464	0.245870418				
ENSG00000071282	335.518886	341.1180198	489.8770065			
218.9980524	174.5472366	178.5812245	388.8379708			
190.7088378	1.028759632	6.01E-05	0.001090641			LMCD1
3	8501707	8574673	+	9130	protein_coding	LIM
and cysteine rich domains 1 [Source:HGNC Symbol;Acc:HGNC:6633] -						
290	368	501	218	191	182	1.737088452
	1.777096449	2.54196405	1.154481379	0.911635413		
	0.930564855					
ENSG00000099250	5275.745241	4314.03061	4194.755205			
6502.634831	6400.674581	7116.756163	4594.843685			
6673.355192	-0.538622678	6.01E-05	0.001090641			NRP1
10	33177492	33336262	-	11522		
protein_coding neuropilin 1 [Source:HGNC Symbol;Acc:HGNC:8004] -						
4560	4654	4290	6473	7004	7253	21.64370892
	17.80871017	17.2477273	27.16307624	26.48968929		
	29.38568659					
ENSG00000136122	389.8960847	437.5209385	538.7669273			
245.1170862	258.6223453	144.2386814	455.3946502			
215.9927043	1.076197875	6.01E-05	0.001090641			BORA
13	72727749	72756198	+	3189		
protein_coding "bora, aurora kinase A activator [Source:HGNC Symbol;Acc:HGNC:24724]" -						
147	5.779231539	6.525614846	8.003860956			283
3.699444562	3.867145513	2.151834426				
ENSG00000150995	4382.570828	5442.130148	2502.186147			
6540.808804	7564.018205	7922.334104	4108.962374			
7342.387038	-0.837467763	6.04E-05	0.001093417			ITPR1
3	4493345	4847840	+	32454		
protein_coding "inositol 1,4,5-trisphosphate receptor type 1 [Source:HGNC Symbol;Acc:HGNC:6180]" -						
6511	8277	8074	6.383170592	7.975865221		2559
3.652620144	9.700199806	11.11381904	11.61359158			
ENSG00000136982	1294.640115	1159.615877	1140.112953			
824.7587203	724.6908828	774.1790449	1198.122982			
774.5428826	0.62919498	6.05E-05	0.001093417			DSCC1
8	119833976	119856010	-	2603		
protein_coding DNA replication and sister chromatid cohesion 1 [Source:HGNC Symbol;Acc:HGNC:24453] -						
821	793	789	23.50989184	21.1893239		1166
20.75041745	15.25001271	13.27570572	14.14975339			
ENSG00000164692	17593.9162	7898.550671	21867.48378			
5889.842116	4233.912812	5385.891986	15786.65022			
5169.882305	1.610500667	6.05E-05	0.001093417			COL1A2
7	94394561	94431232	+	11156		
protein_coding collagen type I alpha 2 chain [Source:HGNC Symbol;Acc:HGNC:2198] -						
5489	74.5469283	33.67565237	92.86315482			4633

25.41046457	18.09724194	22.96840096			
ENSG00000111725	790.2048245	982.5682093	773.4385472		
1306.956267	1304.991905	1378.607805	848.7371937		
1330.185326	-0.647614838	6.09E-05	0.001098605	PRKAB1	
12	119667753	119681630	+ 6246		
protein_coding	protein kinase AMP-activated non-catalytic subunit				
beta 1 [Source:HGNC	Symbol;Acc:HGNC:9378]				
			- 683	1060	
791	1301	1428	1405	5.980168713	7.48234697
5.866471422	10.0710913	9.9628783	10.50075148		
ENSG00000169136	882.7617586	944.5632125	980.7318114		
1490.794081	1307.733485	1461.029908	936.0189275		
1419.852492	-0.600661704	6.11E-05	0.001101977	ATF5	
19	49928702	49933935	+ 2954		
protein_coding	activating transcription factor 5 [Source:HGNC				
Symbol;Acc:HGNC:790]	TF_bZIP	763	1019	1003	1484
1489	14.12566036	15.20889463	15.72870249	1431	
24.28983846	21.10997605	23.53045053			
ENSG00000075239	1464.713481	1587.867304	1719.947414		
957.3630456	1000.676566	1154.890666	1590.842733		
1037.643426	0.616747653	6.13E-05	0.0011033	ACAT1	
11	108121516	108147776	+ 5584		
protein_coding	acetyl-CoA acetyltransferase 1 [Source:HGNC				
Symbol;Acc:HGNC:93]	-	1266	1713	1759	953
1177	12.39889576	13.525269	14.59227097	1095	
8.251800269	8.545299866	9.839591962			
ENSG00000123395	307.7518057	538.5586128	454.6762635		
780.5572785	726.5186025	912.5304331	433.6622274		
806.5354381	-0.893115362	6.15E-05	0.001106254	ATG101	
12	52069246	52077494	+ 3199		
protein_coding	autophagy related 101 [Source:HGNC				
Symbol;Acc:HGNC:25679]	-	266	581	465	777
930	4.547389025	8.007479773	6.733504716	795	
11.74378239	10.82957682	13.57109043			
ENSG00000119912	1515.619795	1245.822333	1390.429348		
985.4912358	822.4738897	850.7138554	1383.957159		
886.226327	0.642850625	6.17E-05	0.001107694	IDE	
10	92451684	92574076	- 7607		
protein_coding	insulin degrading enzyme [Source:HGNC				
Symbol;Acc:HGNC:5381]	-	1310	1344	1422	981
867	9.417867849	7.789683465	8.659416642	900	
6.235292161	5.15570062	5.320491051			
ENSG00000198890	1357.116046	1590.648158	1341.539427		
2248.246061	2443.661312	1893.745953	1429.767877		
2195.217775	-0.61838616	6.17E-05	0.001107694	PRMT6	
1	107056679	107067636	+ 4335		
protein_coding	protein arginine methyltransferase 6 [Source:HGNC				
Symbol;Acc:HGNC:18241]	-	1173	1716	1372	2238
1930	14.79802045	17.45268056	14.6611307	2674	
24.9615872	26.88010116	20.78328739			
ENSG00000106608	1256.46038	1376.522444	1362.073194		

2045.32126	1901.742405	1898.65203	1331.685339	
1948.571898	-0.548801563	6.24E-05	0.001117779	URGCP
7	43875894	43926411	- 7830	
protein_coding	upregulator of cell proliferation [Source:HGNC			
Symbol;Acc:HGNC:30890]	-	1086 1485	1393 2036	2081
1935	7.585125589	8.361778317	8.241225737	
12.57237216	11.58160945	11.53626552		
ENSG00000133466	260.316377	199.2944953	339.2960504	
123.5631213	97.78300688	122.6519399	266.3023076	
114.6660227	1.216093095	6.36E-05	0.00113922	
C1QTNF6 22	37180167	37199385	- 7143	
protein_coding	C1q and TNF related 6 [Source:HGNC			
Symbol;Acc:HGNC:14343]	-	225 215	347 123	107
125	1.722648145	1.327063694	2.250356273	
0.832579432	0.652772312	0.816912231		
ENSG00000160352	195.5265232	182.6093747	287.4727344	
92.42119643	71.28107044	104.0088451	221.8695441	
89.23703731	1.315305497	6.46E-05	0.001154347	ZNF714
19	21082159	21125270	+ 8033	
protein_coding	zinc finger protein 714 [Source:HGNC			
Symbol;Acc:HGNC:27124]	zf-C2H2	169 197	294 92	78
106	1.150545109	1.08124078	1.695399377	
0.55374686	0.423131574	0.61599067		
ENSG00000146950	189.7417148	291.9896094	372.5411966	
94.43035287	128.8542427	131.4828796	284.7575069	
118.2558251	1.268693236	6.66E-05	0.001190001	
SHROOM2 X	9786456 9949443	+ 8191	protein_coding	shroom
family member 2 [Source:HGNC	Symbol;Acc:HGNC:630]		-	164
315	381 94	141 134	1.094968523	
1.695538228	2.154718327	0.554871149	0.750137341	
0.763684381				
ENSG00000084636	1309.680617	1199.474776	2961.751403	
462.1059821	229.3788292	512.1945012	1823.635599	
401.2264375	2.184545783	6.72E-05	0.001198328	
COL16A1 1	31652247	31704319	- 9269	
protein_coding	collagen type XVI alpha 1 chain [Source:HGNC			
Symbol;Acc:HGNC:2193]	-	1132 1294	3029 460	251
522	6.678951002	6.155103387	15.13801206	
2.3995299	1.180047358	2.628958053		
ENSG00000253729	15112.23341	14627.289	18782.52978	
11830.91772	8243.016094	11316.35859	16174.0174	
10463.4308	0.628377831	6.73E-05	0.001198858	PRKDC
8	47773108	47960183	- 15417	
protein_coding	"protein kinase, DNA-activated, catalytic subunit			
[Source:HGNC	Symbol;Acc:HGNC:9413]"		-	13062 15780 19209
11777	9020 11533	46.33450415	45.12748021	
57.71747718	36.93482275	25.49560153	34.92114343	
ENSG00000150556	111.0683209	126.9923063	234.6716199	
65.29758443	29.24351608	45.1359139	157.5774157	
46.5590048	1.762310699	6.81E-05	0.001211877	LYPD6B

2	149038107	149215262	+	3771	
protein_coding	LY6/PLAUR domain containing 6B	[Source:HGNC			
Symbol;Acc:HGNC:27018]	-	96	137	240	65 32
46	1.392224953	1.601762024		2.948201516	
0.833408721	0.369787344	0.569439167			
ENSG00000233968	70.57466222	34.29719221		46.93432398	
8.036625776	5.483159264	7.849724156		50.60205947	
7.123169732	2.828892811	6.86E-05		0.001218729	
AL157895.1	10	19710328	19728550	-	2151
antisense	uncharacterized LOC101928834	[Source:NCBI			
gene;Acc:101928834]	-	61	37	48	8 6
8	1.550901219	0.758394669		1.033720866	
0.1798253	0.121554051	0.173618345			
ENSG00000123933	529.8884475	846.3063916		605.2572196	
1284.855546	1023.523063	1137.228787		660.4840196	
1148.535799	-0.796817302	6.91E-05		0.001226	MXD4
4	2247432	2262294	-	7058	protein_coding MAX
dimerization protein 4	[Source:HGNC Symbol;Acc:HGNC:13906]				bHLH
458	913	619	1279	1120	1159 3.548775586
5.703258829	4.062669099	8.761734863		6.915044295	
7.665629375					
ENSG00000152377	2401.852439	1265.288307		2040.665295	
1229.603744	975.0884892	985.1403815		1902.602014	
1063.277538	0.839077074	6.94E-05		0.00123119	SPOCK1
5	136975298	137598379	-	6222	
protein_coding	"SPARC (osteonectin), cwcv and kazal like domains				
proteoglycan 1	[Source:HGNC Symbol;Acc:HGNC:11251]"				2076
1365	2087	1224	1067	1004	18.2470245
9.672452432	15.53799216	9.511579179		7.47296607	
7.532683877					
ENSG00000183160	915.1566855	1043.746985		1529.276723	
626.8568105	616.8554173	733.9492086		1162.726798	
659.2204788	0.819202275	7.00E-05		0.001239658	
TMEM119 12	108589846	108598320	-	3189	
protein_coding	transmembrane protein 119	[Source:HGNC			
Symbol;Acc:HGNC:27884]	-	791	1126	1564	624 675
748	13.56490251	15.56746254		22.71876322	
9.460874617	9.223756966	10.94947041			
ENSG00000231500	28671.82425	36138.11718		33144.43291	
41159.57891	47581.02838	61945.11696		32651.45811	
50228.57475	-0.621338652	7.03E-05		0.001244066	RPS18
6	33272010	33276510	+	1898	
protein_coding	ribosomal protein S18	[Source:HGNC			
Symbol;Acc:HGNC:10401]	-	24782	38986	33897	40972 52066
63131	714.0602494	905.6208827		827.308547	
1043.739627	1195.409227	1552.717674			
ENSG00000187601	127.2657843	173.3398633		61.60130022	
235.071304	371.9409701	355.200018		120.7356493	
320.7374307	-1.409284714	7.07E-05		0.001250001	MAGEH1
X	55452105	55453566	+	1462	

protein_coding	MAGE family member H1 [Source:HGNC						
Symbol;Acc:HGNC:24092]	-	110	187	63	234	407	
	362	4.114717515	5.639338865	1.996161305			
7.738730118		12.13125228	11.5586532				
ENSG00000145247		859.6225251	1186.49746	906.4191318			
1516.913115		1481.366861	1722.033237	984.1797057			
1573.437738		-0.676114028	7.09E-05	0.001250001		OCIAD2	
	4	48885019	48906937	-	2483		
protein_coding	OCIA domain containing 2 [Source:HGNC						
Symbol;Acc:HGNC:28685]	-	743	1280	927	1510	1621	
	1755	16.36465323	22.72831334	17.29439884			
29.40366352		28.44886164	32.99487118				
ENSG00000143322		5561.514775	4892.448121	4456.805181			
7634.794487		6936.19647	6808.65449	4970.256026			
7126.548482		-0.520037031	7.09E-05	0.001250001		ABL2	
	1	179099327	179229684	-	13257		
protein_coding	"ABL proto-oncogene 2, non-receptor tyrosine kinase						
[Source:HGNC Symbol;Acc:HGNC:77]"	-			4807	5278	4558	
	7600	7590	6939	19.83003947	17.5532722		
15.9269098		27.71848902	24.94911342	24.43417427			
ENSG00000148926		3239.492692	3628.086765	2405.384104			
4334.755028		6150.276975	4608.769295	3090.987854			
5031.267099		-0.702929601	7.11E-05	0.001250702		ADM	
	11	10304680	10307397	+	2718		
protein_coding	adrenomedullin [Source:HGNC Symbol;Acc:HGNC:259]						
	-	2800	3914	2460	4315	6730	4697
56.33824209		63.48999997	41.92645185	76.75957547			
107.9006869		80.67094485					
ENSG00000150991		13751.64648	12081.88117	10502.53279			
17656.46683		17402.63365	16807.24063	12112.02015			
17288.78037		-0.513476826	7.11E-05	0.001250702		UBC	
	12	124911604	124917368	-	3898		
protein_coding	ubiquitin C [Source:HGNC Symbol;Acc:HGNC:12468]						
	-	11886	13034	10741	17576	19043	17129
		147.4245599	127.6454497	218.0115113	212.8884649		
		205.1333207					
ENSG00000183137		500.9644056	329.9946061	445.8760778			
194.8881751		202.8768928	247.2663109	425.6116965			
215.0104596		0.984083911	7.13E-05	0.001253426			
CEP57L1	6	109095110	109163932	+	6432		
protein_coding	centrosomal protein 57 like 1 [Source:HGNC						
Symbol;Acc:HGNC:21561]	-	433	356	456	194	222	
	252	3.681599763	2.440270221	3.284136977			
1.458333696		1.504061299	1.828944559				
ENSG00000101224		1620.903308	1675.927663	2408.317499			
1178.370254		1138.669407	1207.876304	1901.716156			
1174.971989		0.694949501	7.16E-05	0.001256393		CDC25B	
	20	3786772	3806121	+	4314	protein_coding	cell
division cycle	25B [Source:HGNC Symbol;Acc:HGNC:1726]						
	-						1401
	1808	2463	1173	1246	1231	17.76039855	

18.4778843	26.44762795	13.14677069	12.58625421	
13.32060493				
ENSG00000108786	126.1088227	89.91426066	123.2026004	
387.7671937	205.6184724	234.5105092	113.0752279	
275.9653918	-1.288248795	7.20E-05	0.001262195	
HSD17B1	42549214	42555213	+ 5658	
protein_coding	hydroxysteroid	17-beta dehydrogenase 1	[Source:HGNC	
Symbol;Acc:HGNC:5210]	-	109 97	126 386	225
239	1.053557559	0.755862412	1.03159697	
3.298569037	1.732918638	1.971882322		
ENSG00000131351	401.4657015	535.7777594	600.3682275	
316.4421399	257.7084854	221.7547074	512.5372295	
265.3017776	0.951243448	7.26E-05	0.001271288	HAUS8
19	17049729	17075625	- 5533	
protein_coding	HAUS augmin	like complex subunit 8	[Source:HGNC	
Symbol;Acc:HGNC:30532]	-	347 578	614 315	282
226	3.429758312	4.605758117	5.140556735	
2.752650671	2.220992213	1.906750218		
ENSG00000146263	1218.280645	930.6589454	1062.866878	
599.7331985	579.3871623	756.5171655	1070.602156	
645.2125088	0.7301515	7.27E-05	0.001271288	MMS22L
6	97142161	97283217	- 21793	
protein_coding	"MMS22 like, DNA	repair protein	[Source:HGNC	
Symbol;Acc:HGNC:21475]"	-	1053 1004	1087 597	634
771	2.64244566	2.031190478	2.310547925	
1.324520025	1.267741878	1.651518318		
ENSG00000198554	1192.827488	1120.683929	1167.491309	
719.278007	812.421431	745.7237948	1160.334242	
759.1410776	0.611717652	7.30E-05	0.001275493	WDHD1
14	54938950	55027105	- 6385	
protein_coding	WD repeat and HMG-box	DNA binding protein 1	[Source:HGNC	
Symbol;Acc:HGNC:23170]	-	HMG	1031 1209	1194
716	889 760	8.830646024	8.348325181	
8.662552526	5.421922895	6.067355711	5.556466835	
ENSG00000167363	128.422746	139.0426711	102.6688337	
218.9980524	312.5400781	283.5712851	123.3780836	
271.7031385	-1.139440336	7.42E-05	0.001294712	FN3K
17	82735575	82751197	+ 3872	
protein_coding	fructosamine 3 kinase	[Source:HGNC		
Symbol;Acc:HGNC:24822]	-	111 150	105 218	342
289	1.567769975	1.708007874	1.256193108	
2.722214616	3.849012798	3.484243752		
ENSG00000138172	490.5517505	417.1280134	676.636504	
252.1491337	256.7946256	311.0453197	528.1054226	
273.329693	0.950321881	7.43E-05	0.001295489	CALHM2
10	103446786	103452402	- 3108	
protein_coding	calcium homeostasis	modulator family member 2	[Source:HGNC	
Symbol;Acc:HGNC:23493]	-		424 450	692
251	281 317	7.460699693	6.383596995	
10.31400981	3.904756242	3.939888284	4.761286203	

ENSG00000132383	3741.614059	3745.80956	4003.106716		
2551.628684	2954.508984	2552.141566	3830.176778		
2686.093078	0.511815985	7.49E-05	0.001304379	RPA1	
17	1829702	1900082 +	5492	protein_coding	
replication protein A1 [Source:HGNC Symbol;Acc:HGNC:10289] -					
3234	4041	4094	2540	3233	2601
32.44085411	34.53184362	22.36167877	25.65274085		
22.10832598					
ENSG00000149503	1755.110862	2209.85152	3421.316658		
1496.821551	1187.103981	1462.99234	2462.093013		
1382.305957	0.833215556	7.59E-05	0.001319395	INCENP	
11	62123973	62153163	+ 4473		
protein_coding inner centromere protein [Source:HGNC					
Symbol;Acc:HGNC:6058] - 1517 2384 3499 1490 1299					
1491	18.54732984	23.49856333	36.23660485		
16.10603308	12.65519527	15.56054419			
ENSG00000142949	1409.179321	1862.244842	2265.55893		
1123.118452	804.1966921	1241.237632	1845.661031		
1056.184259	0.805916054	7.65E-05	0.001326817	PTPRF	
1	43525187	43623666	+ 10712		
protein_coding "protein tyrosine phosphatase, receptor type F					
[Source:HGNC Symbol;Acc:HGNC:9670]" - 1218 2009 2317					
1118	880	1265	6.218296655	8.268816052	
10.01977399	5.046292918	3.579898438	5.512720797		
ENSG00000100242	1066.718665	1343.152203	2190.268452		
698.1818643	735.6572013	979.2530884	1533.379773		
804.3640514	0.931214229	7.65E-05	0.001326817	SUN2	
22	38734725	38794143	- 6489		
protein_coding Sad1 and UNC84 domain containing 2 [Source:HGNC					
Symbol;Acc:HGNC:14210] - 922 1449 2240 695 805					
998	7.770480227	9.845200595	15.99089236		
5.178550872	5.406008248	7.179576096			
ENSG00000143933	8400.698727	7937.482619	8208.617704		
5648.743342	6407.071601	5674.369349	8182.26635		
5910.061431	0.4692372	7.75E-05	0.001343186	CALM2	
2	47160082	47176601	- 6466		
protein_coding calmodulin 2 [Source:HGNC Symbol;Acc:HGNC:1445] -					
7261	8563	8395	5623	7011	5783
58.38808098	60.14332802	42.04686299	47.25011443		
41.75067755					
ENSG00000174840	2537.216955	2462.909181	2158.001104		
3415.565955	3666.405828	3232.123921	2386.042414		
3438.031901	-0.527165202	7.78E-05	0.001347106	PDE12	
3	57556276	57566844	+ 8947		
protein_coding phosphodiesterase 12 [Source:HGNC					
Symbol;Acc:HGNC:25386] - 2193 2657 2207 3400 4012					
3294	13.40466322	13.09326853	11.42687171		
18.37395702	19.54078853	17.18668801			
ENSG00000126062	968.3769226	1799.212164	1505.809561		
2347.699305	2311.15163	2664.981351	1424.466216		

2441.277429	-0.7763446	7.81E-05	0.001350362		
TMEM115 3	50354749	50359610	-	2197	
protein_coding	transmembrane protein 115 [Source:HGNC				
Symbol;Acc:HGNC:30055]	-	837	1941	1540	2337 2529
2716	20.83483732	38.95197084	32.4708098		
51.43158068	50.1622918	57.70929177			
ENSG00000178719	3408.409097	4281.58732	3836.880985		
5261.980727	5474.934526	5814.683168	3842.292467		
5517.199474	-0.521715134	7.91E-05	0.001366351		GRINA
8	143990058	143993415	+	2527	
protein_coding	glutamate ionotropic receptor NMDA type subunit				
associated protein 1 [Source:HGNC	Symbol;Acc:HGNC:4589] - 2946				
4619	3924	5238	5991	5926	63.75616903
80.58916914	71.93267527	100.2216316	103.3124535		
109.4718459					
ENSG00000188985	322.7923075	366.1457006	416.5421253		
190.8698622	199.2214533	190.3558108	368.4933778		
193.4823754	0.930024702	7.95E-05	0.001372334		DHFRP1
18	26170726	26171284	-	559	
processed_pseudogene	dihydrofolate reductase pseudogene 1				
[Source:HGNC	Symbol;Acc:HGNC:2862] - 426				
190	218	194	27.29525199	31.15438953	
35.30207612	16.43398967	16.99430011	16.20078124		
ENSG00000136378	59.00504546	27.80853423	78.22387329		
12.05493866	2.741579632	5.887293117	55.01248433		
6.894603804	3.003834252	7.97E-05	0.001373739		
ADAMTS7 15	78759203	78811431	-	7730	
protein_coding	ADAM metallopeptidase with thrombospondin type 1 motif				
7 [Source:HGNC	Symbol;Acc:HGNC:223] - 80				
12	3	6	0.360815674	0.171110129	
0.479416469	0.075059034	0.01691221	0.036234126		
ENSG00000104524	425.7618967	532.996906	571.034275		
978.4591883	749.3650995	868.3757347	509.9310259		
865.4000075	-0.761717908	8.00E-05	0.001376671		PYCR3
8	143603913	143609773	-	3244	
protein_coding	pyrroline-5-carboxylate reductase 3 [Source:HGNC				
Symbol;Acc:HGNC:25846]	-	368	575	584	974 820
885	6.203855674	7.81485559	8.339393319		
14.51708193	11.01518016	12.73527892			
ENSG00000155959	3037.024399	2407.292113	2453.296226		
1704.769243	1897.173106	1675.916107	2632.537579		
1759.286152	0.580985572	8.03E-05	0.001380316		VBP1
X	155197007	155239817	+	2018	
protein_coding	VHL binding protein 1 [Source:HGNC				
Symbol;Acc:HGNC:12662]	-	2625	2597	2509	1697 2076
1708	71.13819779	56.73940088	57.59462504		
40.65948719	44.82959187	39.51051953			
ENSG00000179598	189.7417148	307.7477788	116.3580115		
503.2936892	498.0536332	414.0729492	204.615835		
471.8067572	-1.203985612	8.04E-05	0.001380316		PLD6

17	17200995	17206315	-	2560	
protein_coding	phospholipase D family member 6	[Source:HGNC			
Symbol;Acc:HGNC:30447]	-	164 332	119 501	545	
422	3.503471553	5.717841025	2.153324352		
9.462349326	9.277161878	7.695175367			
ENSG00000125304	3130.738294	2685.377455	3475.095571		
2241.214013	2020.544189	2011.491815	3097.07044		
2091.083339	0.566622854	8.07E-05	0.001384886	TM9SF2	
13	99446311	99564006	+ 5524		
protein_coding	transmembrane 9 superfamily member 2	[Source:HGNC			
Symbol;Acc:HGNC:11865]	-	2706 2897	3554 2231	2211	
2050	26.78976075	23.12218029	29.80342729		
19.52752115	17.44189511	17.32392229			
ENSG00000111846	892.017452	866.6993167	1095.134226		
581.6507906	598.5782197	598.5414669	951.2836649		
592.9234924	0.68214474	8.11E-05	0.001389753	GCNT2	
6	10492223	10629368	+ 9072		
protein_coding	glucosaminyl (N-acetyl) transferase 2 (I blood group)	[Source:HGNC			
Symbol;Acc:HGNC:4204]	-	771 935	1120		
579	655 610	4.647785206	4.544043993		
5.718964977	3.085863692	3.146276281	3.138866387		
ENSG00000183963	798.3035562	1366.325982	1016.910353		
1836.36899	1625.756722	1905.520539	1060.513297		
1789.215417	-0.753491959	8.21E-05	0.001405764	SMTN	
22	31064105	31104757	+ 10242		
protein_coding	smoothelin [Source:HGNC	Symbol;Acc:HGNC:11126]	-		
690	1474 1040	1828 1779	1942 3.684334323		
6.345219789	4.703823566	8.629639158	7.569196403		
8.851369891					
ENSG00000144959	1397.609704	1022.427108	1406.074122		
742.3833061	657.0652519	890.9436917	1275.370312		
763.4640832	0.740091282	8.26E-05	0.001412001	NCEH1	
3	172630249	172711218	- 4808		
protein_coding	neutral cholesterol ester hydrolase 1	[Source:HGNC			
Symbol;Acc:HGNC:29260]	-	1208 1103	1438 739	719	
908	13.74033078	10.1145138	13.85469223		
7.431580661	6.516629486	8.815915632			
ENSG00000104823	1585.037496	1689.83193	1541.010304		
2332.630632	2462.85237	2168.486298	1605.293243		
2321.3231	-0.53206243	8.29E-05	0.001416062	ECH1	
19	38815422	38832005	- 2467		
protein_coding	enoyl-CoA hydratase 1	[Source:HGNC			
Symbol;Acc:HGNC:3149]	-	1370 1823	1576 2322	2695	
2210	30.3700936	32.58002979	29.5930358		
45.50868457	47.60452299	41.81856828			
ENSG00000134824	8993.063105	10560.75435	15766.99946		
6282.632201	6431.745817	8431.584959	11773.60564		
7048.654326	0.740204583	8.31E-05	0.001416748	FADS2	
11	61792980	61867354	+ 11026		
protein_coding	fatty acid desaturase 2	[Source:HGNC			

Symbol;Acc:HGNC:3575]	-	7773	11393	16125	6254	7038
8593	38.5536404	45.55688984		67.74608317		
27.42465073	27.81569221	36.38085149				
ENSG00000198492	3780.950756	3823.673456		3532.785678		
4968.643886	5825.856719	4972.800253		3712.469963		
5255.766952	-0.501608892	8.31E-05		0.001416748		YTHDF2
1	28736621	28769775		+ 3859		
protein_coding	YTH N6-methyladenosine RNA binding protein 2					
[Source:HGNC Symbol;Acc:HGNC:31675]	-			3268	4125	3613
4946	6375	5068	46.31290061	47.12844737		
43.37062082	61.96986498	71.98864651		61.30668924		
ENSG00000182287	1669.495698	1389.49976		1307.316482		
885.0334136	1039.97254	851.6950709		1455.437314		
925.5670083	0.652318867	8.35E-05		0.001421372		AP1S2
X	15825806	15854931		- 5371		
protein_coding	adaptor related protein complex 1 subunit sigma 2					
[Source:HGNC Symbol;Acc:HGNC:560]	-			1443	1499	1337
881	1138	868	14.69284481	12.30496658		
11.53131168	7.930890844	9.233061055		7.544155103		
ENSG00000183688	897.8022604	756.3921309		984.6430051		
545.4859746	581.214882	440.5657682		879.6124655		
522.4222083	0.751195634	8.38E-05		0.001424379		RFLNB
17	439978	445939	- 3621	protein_coding		
refilin B [Source:HGNC Symbol;Acc:HGNC:28705]	-			776		816
1007	543	636	449	11.72000803	9.935634159	
12.88259642	7.250576202	7.65397763		5.788470869		
ENSG00000140365	860.7794867	1108.633564		1245.715182		
610.783559	675.3424494	667.2265532		1071.709411		
651.1175205	0.719497025	8.45E-05		0.001435312		COMMD4
15	75335891	75343224		+ 6779		
protein_coding	COMM domain containing 4 [Source:HGNC					
Symbol;Acc:HGNC:26027]	-	744	1196	1274	608	739
680	6.002083243	7.778565332		8.70575117		
4.336498114	4.750478996	4.682624301				
ENSG00000112977	3351.717975	2958.828042		3860.348147		
2090.52728	2404.365337	2357.860893		3390.298054		
2284.25117	0.569572316	8.52E-05		0.001445686		DAP
5	10679230	10761272		- 3361		
protein_coding	death associated protein [Source:HGNC					
Symbol;Acc:HGNC:2672]	-	2897	3192	3948	2081	2631
2403	47.1383846	41.87244571		54.41405451		
29.93675921	34.11229458	33.37577002				
ENSG00000002822	1986.503197	2320.158706		2155.067709		
3286.979942	2938.059506	3055.505128		2153.909871		
3093.514859	-0.521919046	8.59E-05		0.001456133		MAD1L1
7	1815793	2233243	- 7230	protein_coding		
mitotic arrest deficient 1 like 1 [Source:HGNC Symbol;Acc:HGNC:6762]	-					
-	1717	2503	2204	3272	3215	3114
12.98753439	15.26358362	14.12133477		21.88145587		
19.3776576	20.10603095					

ENSG0000019505	19.66834849	15.75816939	17.60037149	0	
0	0	17.67562979	0	6.635961258	
8.61E-05	1	SYT13	11	45240301	45286319
-	5424	protein_coding	synaptotagmin	13	[Source:HGNC
Symbol;Acc:HGNC:14962]	-	17	17	18	0
0	0.171405184	0.13818573	0.153728815	0	
0	0				
ENSG00000182473	2246.819574	2011.483976	1945.818848		
2954.464551	2901.505111	2977.007886	2068.040799		
2944.325849	-0.50997786	8.71E-05	0.00147503		EXOC7
17	76081017	76121576	-	10086	
protein_coding	exocyst complex	component 7	[Source:HGNC		
Symbol;Acc:HGNC:23214]	-	1942	2170	1990	2941
3034	10.52991764	9.485816694	9.139797389		3175
14.09864182	13.71776515	14.04244231			
ENSG00000134986	1217.123683	600.6643393	793.9723139		
471.1471861	448.7051998	447.4342769	870.5867787		
455.7622209	0.932558595	8.75E-05	0.001478917		NREP
5	111662621	111997464	-	9337	
protein_coding	neuronal regeneration	related protein	[Source:HGNC		
Symbol;Acc:HGNC:16834]	-	1052	648	812	469
456	6.161736096	3.059860343	4.028571966		491
2.42865989	2.291567905	2.279835541			
ENSG00000114520	806.402288	845.3794405	957.2646494		
322.4696093	497.1397733	597.5602514	869.6821259		
472.389878	0.880385451	8.76E-05	0.00147911		SNX4
3	125446644	125520197	-	2709	
protein_coding	sorting nexin 4	[Source:HGNC Symbol;Acc:HGNC:11175]			
-	697	912	979	321	544
14.07079014	14.84293519	16.74079748	5.729243014		
8.750814795	10.4943205				
ENSG00000255031	6.941770054	48.20145932	57.69010655		0
0	3.924862078	37.61111198	1.308287359		
4.859798869	8.78E-05	0.001482242	AP002807.1		11
68050740	68053762	+	1209	antisense	
"novel transcript, antisense to CHKA"			-	6	52
59	0	0	4	0.271406136	1.896317272
2.260623129	0	0	0.154447089		
ENSG00000105559	314.6935758	554.3167822	384.2747776		
568.5912737	953.1558521	985.1403815	417.7617119		
835.6291691	-0.998922333	8.84E-05	0.001489464		
PLEKHA4	19	48837097	48868632	-	3851
protein_coding	pleckstrin homology	domain containing A4	[Source:HGNC		
Symbol;Acc:HGNC:14339]	-	272	598	393	566
1004	3.86269216	6.846389819	4.727390603		1043
7.106309676	11.8023744	12.17043861			
ENSG00000118785	48.59239038	22.24682738	9.777984162		
177.8103453	79.50580934	107.9337071	26.87240064		
121.7499539	-2.190508135	8.89E-05	0.001496772		SPP1
4	87975650	87983426	+	2321	

protein_coding	secreted phosphoprotein 1 [Source:HGNC					
Symbol;Acc:HGNC:11255]	-	42	24	10	177	87
110	0.989620909	0.45590049	0.199584732			
3.687222476	1.633438208	2.212399647				
ENSG00000171223	1217.123683	2021.680438	1324.916854			
2210.072088	3093.415685	2502.099575	1521.240325			
2601.862449	-0.773816954	8.91E-05	0.001498872			JUNB
19	12791496	12793315	+	1820		
protein_coding	"JunB proto-oncogene, AP-1 transcription factor					
subunit [Source:HGNC	Symbol;Acc:HGNC:6205]"					
1355	2200	3385	2550	31.6110604	52.8345771	2181
34.48818687	58.44569257	81.04866818	65.40558407			
ENSG00000177084	3870.036805	4240.801469	4925.170622			
3134.284053	2341.309006	3081.016731	4345.336299			
2852.203263	0.607647642	8.98E-05	0.001508647			POLE
12	132623753	132687365	-	16609		
protein_coding	"DNA polymerase epsilon, catalytic subunit					
[Source:HGNC	Symbol;Acc:HGNC:9177]"					
3120	2562	3140	11.01405776	12.14455403		5037
14.04853124	9.082644697	6.721933908	8.825355303			
ENSG00000213380	1047.050317	1064.13991	1166.51351			
1650.522019	1621.187423	1553.264167	1092.567912			
1608.324536	-0.557652947	8.99E-05	0.001508647			COG8
16	69320140	69339667	-	7450		
protein_coding	component of oligomeric golgi complex 8 [Source:HGNC					
Symbol;Acc:HGNC:18623]	-	905	1148	1193	1643	1774
1583	6.643348251	6.793906619	7.417996545			
10.66307606	10.37662066	9.919063669				
ENSG00000105287	638.642845	899.1426066	836.0176458			
1160.287846	1347.029459	1325.622167	791.2676991			
1277.646491	-0.690241767	9.01E-05	0.001510951			PRKD2
19	46674275	46717127	-	5446		
protein_coding	protein kinase D2 [Source:HGNC					
Symbol;Acc:HGNC:17293]	-	552	970	855	1155	1474
1351	7.852863621	7.272620629	10.25428925			
5.543143906	11.58040499					
11.79447039	3342.462281	2355.382849	2359.427578			
ENSG00000081320	1963.884877	1573.869693	2685.757569			
1393.349994	0.707792317	9.05E-05	0.001515412			STK17B
1643.701521	196133566	196176503	-	6580		
2	protein_coding serine/threonine kinase 17b [Source:HGNC					
Symbol;Acc:HGNC:11396]	-	2889	2541	2413	1387	2149
1604	24.01133799	17.02600393	16.98767267			
10.19182092	14.23210436	11.37953474				
ENSG00000138376	767.065591	733.2183524	746.0601915			
418.9091186	481.6041554	489.6265442	748.7813783			
463.3799394	0.69197089	9.22E-05	0.001541478			BARD1
2	214725646	214809711	-	6067		
protein_coding	BRCA1 associated RING domain 1 [Source:HGNC					
Symbol;Acc:HGNC:952]	-	663	791	763	417	527

499	5.97632554	5.748260569	5.825765493	
3.323252013	3.785255664	3.839481563		
ENSG0000004399	3062.477556	3057.084863	6165.019014	
1687.691413	1188.931701	1346.227693	4094.860477	
1407.616935	1.540638265	9.30E-05	0.001554031	PLXND1
3	129555175	129606818	- 9738	
protein_coding	plexin D1 [Source:HGNC Symbol;Acc:HGNC:9107]			-
2647	3298	6305	1680	1301
14.93189197	29.99285283	8.341434195	5.821918534	
6.577038392				
ENSG00000147251	835.3263299	673.8934794	857.529211	
511.330315	491.656614	386.5989147	788.9163401	
463.1952812	0.767788547	9.31E-05	0.001554031	DOCK11
X	118495898	118686163	+ 6721	
protein_coding	dedicator of cytokinesis 11 [Source:HGNC			
Symbol;Acc:HGNC:23483]	-	722	727	877
394	5.874866672	4.769078526	6.044608169	538
3.661719758	3.488244981	2.736581346		
ENSG00000108424	15303.13208	14644.90107	16366.38989	
12012.74638	10399.7254	11186.83814	15438.14102	
11199.76997	0.463054183	9.34E-05	0.00155746	KPNB1
17	47649476	47685505	+ 7678	
protein_coding	karyopherin subunit beta 1 [Source:HGNC			
Symbol;Acc:HGNC:6400]	-	13227	15799	16738
11401	94.2123764	90.72259189	100.9852422	11380
75.30289239	64.58813614	69.31717801		
ENSG00000132561	185.1138681	141.8235245	215.1156516	
96.43950931	35.64053522	37.28618974	180.6843481	
56.45541142	1.680505707	9.41E-05	0.001566734	MATN2
8	97868840	98036716	+ 6933	
protein_coding	matrilin 2 [Source:HGNC Symbol;Acc:HGNC:6908]			-
160	153	220	96	39
0.972980617	1.46995465	0.66950103	0.245133127	
0.255863556				
ENSG00000212719	939.4528807	946.4171148	910.3303254	
1540.018414	1356.168058	1305.997856	932.0667736	
1400.72811	-0.587596135	9.44E-05	0.001568421	
C17orf51	17	21428381	21574517	- 14794
protein_coding	chromosome 17 open reading frame 51			
[Source:HGNC Symbol;Acc:HGNC:27904]	-		812	1021
1533	1484	1331	3.001685087	3.042804751
2.915187697	5.010231083	4.371262471	4.199895426	
ENSG00000126243	696.4909288	842.598587	810.594887	
1156.269534	1330.579982	1161.759175	783.2281343	
1216.202897	-0.634285903	9.44E-05	0.001568421	LRFN3
19	35935358	35945767	+ 4044	
protein_coding	leucine rich repeat and fibronectin type III domain			
containing 3 [Source:HGNC Symbol;Acc:HGNC:28370]	-			602
909	829	1151	1456	1184
9.910297554	9.496112246	13.76148792	15.68948997	

13.6674216						
ENSG00000108107	15872.35723	23625.20373	22240.02498			
29458.25178	31215.62569	31841.42482	20579.19531			
30838.4341	-0.583474547	9.46E-05	0.00157049			RPL28
19	55385345	55403250	+ 6933			
protein_coding	ribosomal protein L28 [Source:HGNC					
Symbol;Acc:HGNC:10330]	-	13719	25487	22745	29324	34158
32451	108.2171192	162.0807646	151.973266			
204.5046687	214.6989061	218.500744				
ENSG00000183255	9023.144109	9887.787819	11013.92136			
5812.489593	7576.812244	7097.131852	9974.951096			
6828.81123	0.546677996	9.47E-05	0.00157049			
PTTG1IP 21	44849585	44873903	- 3537			
protein_coding	PTTG1 interacting protein [Source:HGNC					
Symbol;Acc:HGNC:13524]	-	7799	10667	11264	5786	8291
7233	120.5864676	132.9661804	147.5231027			
79.09419058	102.1481377	95.46176089				
ENSG00000067955	4041.267133	3889.486987	4251.467513			
3006.702619	2970.044602	2753.290748	4060.740545			
2910.012656	0.480694008	9.60E-05	0.001589698			CBFB
16	67029116	67101058	+ 4129			
protein_coding	core-binding factor subunit beta [Source:HGNC					
Symbol;Acc:HGNC:1539]	CBF	3493	4196	4348	2993	3250
2806	46.2645578	44.80480119	48.78059669			
35.04798469	34.30023345	31.72406417				
ENSG00000145147	2222.523379	1279.192574	2616.588562			
1153.255799	772.2115964	1289.317193	2039.434838			
1071.594863	0.928431491	9.65E-05	0.001596482			SLIT2
4	20253260	20620561	+ 9712			
protein_coding	slit guidance ligand 2 [Source:HGNC					
Symbol;Acc:HGNC:11086]	-	1921	1380	2676	1148	845
1314	10.81716374	6.264759028	12.76379708			
5.715239452	3.791461348	6.315863383				
ENSG00000112144	1755.110862	1293.096841	1473.542213			
992.5232834	1024.436923	838.9392691	1507.249972			
951.9664917	0.662269103	9.68E-05	0.001599173			ICK
6	53001279	53061802	- 6259			
protein_coding	intestinal cell kinase [Source:HGNC					
Symbol;Acc:HGNC:21219]	-	1517	1395	1507	988	1121
855	13.25486601	9.82659855	11.15348934			
7.63226093	7.804754715	6.376864648				
ENSG00000111328	469.7264403	454.206059	431.2091015			
257.1720248	260.4500651	256.0972506	451.713867			
257.9064468	0.808278361	9.74E-05	0.001608601			
CDK2AP1 12	123260971	123272334	- 3117			
protein_coding	cyclin dependent kinase 2 associated protein 1					
[Source:HGNC Symbol;Acc:HGNC:14002]	-		406	490		441
256	285	261	7.123344431	6.930957499		
6.553966889	3.971041077	3.984434166	3.908856624			
ENSG00000272899	61.31896881	113.0880392	97.77984162			

342.5611737	244.0005873	151.10719	90.72894987	
245.8896503	-1.434516647	9.76E-05	0.001609346	
ATP6V1FNB	7	128866308	128872044	+ 3902
protein_coding ATP6V1F neighbor [Source:HGNC				
Symbol;Acc:HGNC:52392]	-	53	122	100 341 267
154	0.742819536	1.378499216	1.187176225	
4.225404888	2.981828038	1.842381193		
ENSG00000204525	1715.774165	2050.415924	2174.623678	
1059.830024	1421.052109	1324.640951	1980.271255	
1268.507695	0.642656085	9.77E-05	0.001609346	HLA-C
6	31268749	31272130	- 2507	
protein_coding "major histocompatibility complex, class I, C				
[Source:HGNC Symbol;Acc:HGNC:4933]"	-	1483	2212	2224
1055	1555	1350	32.35053966	38.9013566
41.09442468	20.34695114	27.0292912	25.13769603	
ENSG00000112655	2558.042265	2128.279819	3487.80695	
1601.297686	1421.052109	1907.48297	2724.709678	
1643.277588	0.729622868	9.79E-05	0.001610621	PTK7
6	43076268	43161719	+ 9024	
protein_coding protein tyrosine kinase 7 (inactive) [Source:HGNC				
Symbol;Acc:HGNC:9618]	-	2211	2296	3567 1594 1555
1944	13.39936966	11.21777578	18.31076456	
8.540640605	7.509134866	10.05641552		
ENSG00000160447	423.4479733	460.694717	743.1267963	
247.1262426	216.5847909	329.6884145	542.4231622	
264.4664827	1.037262952	9.82E-05	0.001614969	PKN3
9	128702523	128720918	+ 3375	
protein_coding protein kinase N3 [Source:HGNC Symbol;Acc:HGNC:17999]				
-	366	497	760	246 237 336
5.930646262	6.492568936	10.43139212	3.524216226	
3.060082721	4.647415863			
ENSG00000122884	1924.027267	1142.930757	1520.476537	
784.5755914	950.4142725	964.5348556	1529.144854	
899.8415732	0.764178412	9.91E-05	0.001625885	P4HA1
10	73007217	73096974	- 3093	
protein_coding prolyl 4-hydroxylase subunit alpha 1 [Source:HGNC				
Symbol;Acc:HGNC:8546]	-	1663	1233	1555 781 1040
983	29.40404251	17.57588145	23.28911198	
12.20878176	14.65250968	14.83609596		
ENSG00000204231	1339.76162	1599.917669	1503.853964	
2062.39909	2255.406177	2173.392376	1481.177751	
2163.732548	-0.546360891	9.91E-05	0.001625885	RXRB
6	33193588	33200688	- 3920	
protein_coding retinoid X receptor beta [Source:HGNC				
Symbol;Acc:HGNC:10478]	RXR-like	1158	1726	1538 2053
2468	2215	16.15538102	19.41282244	18.17492905
25.32235534	27.43580365	26.37750411		
ENSG00000143369	822.5997514	672.9665283	1236.914996	
420.918275	517.2446906	532.8000271	910.827092	
490.3209976	0.893327466	1.00E-04	0.0016378	ECM1

1	150508062	150513789	+	3360	
protein_coding	extracellular matrix protein 1 [Source:HGNC				
Symbol;Acc:HGNC:3153]	-	711 726	1265	419	566
543	11.57244262	9.526454582	17.44029007		
6.029425899	7.340670858	7.544085261			
ENSG00000100567	2381.027129	1658.315591	1693.546857		
1012.614848	1336.977001	1166.665253	1910.963192		
1172.0857	0.704459667	0.000100292	0.001641496		PSMA3
14	58244831	58272012	+	3119	
protein_coding	proteasome subunit alpha 3 [Source:HGNC				
Symbol;Acc:HGNC:9532]	-	2058 1789	1732	1008	1463
1189	36.08483372	25.28884088	25.72379078		
15.62594797	20.44031334	17.7955951			
ENSG00000114270	4803.704878	4885.959463	9060.280124		
2326.603162	1594.685486	2690.492954	6249.981488		
2203.927201	1.503836181	0.000100528	0.001643608		COL7A1
3	48564073	48595267	-	11071	
protein_coding	collagen type VII alpha 1 chain [Source:HGNC				
Symbol;Acc:HGNC:2214]	-	4152 5271	9266	2316	1745
2742	20.50997858	20.99133809	38.77108019		
10.11469801	6.868583437	11.56183149			
ENSG00000060656	1025.068045	1106.779662	1603.589403		
809.690047	732.0017618	652.5083204	1245.145703		
731.4000431	0.767997393	0.000100657	0.001643959		PTPRU
1	29236516	29326813	+	6682	
protein_coding	"protein tyrosine phosphatase, receptor type U				
[Source:HGNC Symbol;Acc:HGNC:9683]"	-		886	1194	1640
806	801 665	7.251401688	7.878287285		
11.36945986	5.832164795	5.223777164	4.64580749		
ENSG00000163781	4986.504822	4297.345489	4261.245498		
3340.222588	3062.344449	3179.138283	4515.031936		
3193.901774	0.499274658	0.000101092	0.001649301		TOPBP1
3	133598175	133662380	-	7304	
protein_coding	DNA topoisomerase II binding protein 1 [Source:HGNC				
Symbol;Acc:HGNC:17008]	-	4310 4636	4358	3325	3351
3240	32.27091046	27.98444001	27.63941948		
22.01061116	19.99273737	20.70762452			
ENSG00000185730	397.9948164	617.3494598	488.8992081		
972.4317189	748.4512396	907.6243555	501.4144948		
876.1691047	-0.803494597	0.000102297	0.001667187		ZNF696
8	143289676	143298061	+	4012	
protein_coding	zinc finger protein 696 [Source:HGNC				
Symbol;Acc:HGNC:25872]	zf-C2H2	344 666	500	968	819
925	4.689129544	7.318924427	5.773132641		
11.66583016	8.895729637	10.76283901			
ENSG00000156504	2300.039811	2048.562021	2772.05851		
1713.810447	1552.647932	1309.922718	2373.553447		
1525.460366	0.637815594	0.000103071	0.001675459		
FAM122B X	134769566	134797232	-	4404	
protein_coding	family with sequence similarity 122B [Source:HGNC				

Symbol;Acc:HGNC:30490]	-	1988	2210	2835	1706	1699
1335	24.68674224	22.12477798		29.82003911		
18.72979108	16.81143038	14.15076736				
ENSG00000127666	435.0175901	793.4701766		602.3238244		
1212.525914	997.9349861	1052.844252		610.2705303		
1087.768384	-0.832175146	0.000103099		0.001675459		TICAM1
19	4815932	4831704	-	2676		protein_coding toll
like receptor adaptor molecule 1	[Source:HGNC	Symbol;Acc:HGNC:18348]				
-	376	856	616	1207	1092	1073
7.684160874	14.10332823	10.66343335		21.80832836		
17.78259457	18.71800887					
ENSG00000137936	1427.690708	1439.555122		1170.424704		
1900.661996	1983.075934	2136.106186		1345.890178		
2006.614705	-0.5763722	0.000103134		0.001675459		BCAR3
1	93561786	93847150		-	6866	
protein_coding	"BCAR3, NSP family adaptor protein	[Source:HGNC				
Symbol;Acc:HGNC:973]"	-	1234	1553	1197	1892	2170
2177	9.828926181	9.972444193		8.075934857		
13.32350685	13.77255554	14.80132742				
ENSG00000122376	1325.87808	1188.351363		1265.271151		
823.7541421	883.7025015	806.559157		1259.833531		
838.0052668	0.587775272	0.000103334		0.001676936		SHLD2
10	87094161	87191468		+	4242	
protein_coding	shieldin complex subunit 2	[Source:HGNC				
Symbol;Acc:HGNC:28773]	-	1146	1282	1294	820	967
822	14.77435963	13.32451221		14.13077782		
9.346400883	9.933777028	9.045804328				
ENSG00000136720	521.7897157	588.6139744		704.0148596		
964.3950931	1005.245865	947.8541918		604.8061833		
972.4983834	-0.684473574	0.000103685		0.001680845		HS6ST1
2	128236716	128318577		-	4683	
protein_coding	heparan sulfate 6-O-sulfotransferase 1	[Source:HGNC				
Symbol;Acc:HGNC:5201]	-	451	635	720	960	1100
966	5.266803274	5.978380125		7.122144725		
9.911703266	10.23592571	9.629395056				
ENSG00000277957	5.784808379	28.73548537		20.53376674		0
0	0	18.35135349	0	6.694086386		
0.000105098	1	SENP3-EIF4A1	17	7563287	7578715	+
3519	protein_coding	SENP3-EIF4A1 readthrough (NMD				
candidate)	[Source:HGNC	Symbol;Acc:HGNC:49182]	-	5	31	
21	0	0	0	0.077704371	0.388397463	
0.276441018	0	0	0			
ENSG0000011028	3488.239452	2842.959149		7165.306794		
1444.583483	1053.680439	1468.879633		4498.835132		
1322.381185	1.766465642	0.000105571		0.001709218		MRC2
17	62627401	62693597		+	6860	
protein_coding	mannose receptor C type 2	[Source:HGNC				
Symbol;Acc:HGNC:16875]	-	3015	3067	7328	1438	1153
1497	24.03576302	19.711679		49.48388635		
10.1352855	7.324260618	10.18693935				

ENSG00000133134	20.82531016	16.68512054	0.977798416		
106.4852915	60.31475191	82.42210364	12.8294097		
83.07404903	-2.703713516	0.000105659	0.001709218	BEX2	
X	103309346	103311046	- 1176		
protein_coding	brain expressed X-linked 2 [Source:HGNC				
Symbol;Acc:HGNC:30933]	-	18 18	1 106	66	
84	0.837066374	0.674837397	0.03939083		
4.358125777	2.445655107	3.334402325			
ENSG00000101152	3565.755885	4134.202088	4295.468442		
6434.323512	5434.724691	5403.553866	3998.475472		
5757.534023	-0.525769293	0.000106165	0.001715581	DNAJC5	
20	63895182	63936031	+ 5287		
protein_coding	DnaJ heat shock protein family (Hsp40) member C5				
[Source:HGNC Symbol;Acc:HGNC:16235]	-		3082 4460	4393	
6405	5947 5507	31.87997974	37.19285408		
38.49057054	58.57483045	49.01705625	48.6241253		
ENSG00000121680	551.8707193	778.6389583	702.0592628		
1117.090983	1044.54184	1111.717184	677.5229801		
1091.116669	-0.686139648	0.000108463	0.001750866	PEX16	
11	45909669	45918812	- 3013		
protein_coding	peroxisomal biogenesis factor 16 [Source:HGNC				
Symbol;Acc:HGNC:8857]	-	477 840	718 1112	1143	
1133	8.657927805	12.29176114	11.03895005		
17.84460225	16.5312501	17.5540291			
ENSG00000169499	1123.409787	1075.263323	1370.873379		
442.0144177	872.7361829	634.8464411	1189.84883		
649.8656806	0.872007831	0.0001086	0.001751233		
PLEKHA2 8	38901235	38973909	+ 6325		
protein_coding	pleckstrin homology domain containing A2 [Source:HGNC				
Symbol;Acc:HGNC:14336]	-	971 1160	1402 440	955	
647	8.39563236	8.085956811	10.26809645		
3.363514956	6.579629506	4.775180437			
ENSG00000023697	876.9769502	792.5432254	669.7919151		
515.3486279	428.6002825	465.0961562	779.7706969		
469.6816889	0.731166935	0.000110988	0.001787862	DERA	
12	15911172	16037282	+ 2844		
protein_coding	deoxyribose-phosphate aldolase [Source:HGNC				
Symbol;Acc:HGNC:24269]	-	758 855	685 513	469	
474	14.57586463	13.25471764	11.1574111		
8.721455908	7.186242169	7.780272093			
ENSG00000105723	1544.543837	2071.7358	1903.773516		
2602.862173	2777.220167	2840.618929	1840.017718		
2740.233757	-0.574029443	0.000111389	0.001792422	GSK3A	
19	42230186	42242625	- 4126		
protein_coding	glycogen synthase kinase 3 alpha [Source:HGNC				
Symbol;Acc:HGNC:4616]	-	1335 2235	1947 2591	3039	
2895	17.69484468	23.88263613	21.85944764		
30.3626313	32.09667718	32.7540781			
ENSG00000147145	75.20250892	67.66743328	101.6910353		
25.11445555	18.27719755	18.64309487	81.52032583		

20.67824932	1.980664492	0.000112636	0.001810586	LPAR4
X	78747709	78757094	+ 3113	
protein_coding	lysophosphatidic acid receptor 4	[Source:HGNC		
Symbol;Acc:HGNC:4478]	-	65 73	104 25	20
19	1.141902303	1.033898005	1.547592707	
0.388295274	0.279968695	0.284918413		
ENSG00000198053	341.3036943	290.1357071	411.6531332	
178.8149235	180.9442557	175.637578	347.6975115	
178.4655857	0.96196814	0.000112979	0.001814176	SIRPA
20	1894167 1940592	+ 5068	protein_coding	signal
regulatory protein alpha	[Source:HGNC	Symbol;Acc:HGNC:9662]	-	
295	313 421	178 198	179 3.183318715	
2.722962681	3.848114141	1.698183483	1.70250024	
1.64877905				
ENSG00000171135	1234.478108	1407.111832	1010.065764	
1852.442241	1865.18801	1866.271918	1217.218568	
1861.300723	-0.61260902	0.000113097	0.001814176	JAGN1
3	9890572 9894349	+ 1781	protein_coding	
jagunal homolog 1	[Source:HGNC	Symbol;Acc:HGNC:26926]	-	1067
1518	1033 1844	2041 1902	32.76387141	
37.57870502	26.86821766	50.06084935	49.93875178	
49.85315279				
ENSG00000131943	994.9870411	1192.059167	1150.868736	
1645.499128	1668.708136	1623.911685	1112.638315	
1646.03965	-0.564408688	0.000113857	0.001824458	
C19orf12	19 29698886	29715789	-	5378
protein_coding	chromosome 19 open reading frame 12			
[Source:HGNC	Symbol;Acc:HGNC:25443]	-	860 1286	1177
1638	1826 1655	8.745252758	10.54275535	
10.13813618	14.7263228	14.79580412	14.36558235	
ENSG00000087510	90.24301071	142.7504757	109.5134226	
48.21975466	21.93263706	9.812155195	114.1689697	
26.65484897	2.10219712	0.000114071	0.001825972	TFAP2C
20	56629302	56639283	+ 3005	
protein_coding	transcription factor AP-2 gamma	[Source:HGNC		
Symbol;Acc:HGNC:11744]	AP-2	78 154	112 48	24
10	1.419530862	2.25948885	1.726537447	
0.772321238	0.348036957	0.155346531		
ENSG00000138095	5171.61869	4159.229769	4393.248284	
3198.577059	3251.513444	3196.800162	4574.698914	
3215.630222	0.508328929	0.000114235	0.001826684	LRPPRC
2	43886508	43996005	- 9760	
protein_coding	leucine rich pentatricopeptide repeat containing			
[Source:HGNC	Symbol;Acc:HGNC:15714]	-	4470 4487	4493
3184	3558 3258	25.04680982	20.26936811	
21.32500083	15.7733688	15.88600606	15.58286464	
ENSG00000204103	2877.363688	2031.876901	1816.749457	
4012.285419	3110.779023	3703.10737	2241.996682	
3608.723937	-0.687153476	0.000114489	0.001828829	MAFB
20	40685848	40689240	- 3393	

1908	11.60640179	12.2427291	11.92812695	
17.14013408	17.06194404	17.45415538		
ENSG00000168393	1254.146456	1352.421714	1585.011233	
987.5003922	903.8074188	824.2210364	1397.193135	
905.1762825	0.626623937	0.000119424	0.001893819	DTYMK
2	241675742	241686991	- 2451	
protein_coding	deoxythymidylate kinase [Source:HGNC			
Symbol;Acc:HGNC:3061]	-	1084 1459	1621 983	989
840	24.18692643	26.24496142	30.63671238	
19.39150083	17.58375314	15.99860112		
ENSG00000077463	389.8960847	762.8807889	616.0130022	
1222.571696	901.979699	1145.078511	589.5966253	
1089.876635	-0.884601698	0.000120251	0.001904955	SIRT6
19	4174109 4182604	- 2787	protein_coding	
sirtuin 6 [Source:HGNC	Symbol;Acc:HGNC:14934]			
630	1217 987	1167 6.612834366	13.0195755	823
10.47143103	21.11323716	15.4325887	19.54699146	
ENSG00000244038	5651.757786	7014.239283	8724.895267	
4100.688302	4651.546776	5105.264348	7130.297445	
4619.166475	0.626440903	0.000120553	0.001906615	DDOST
1	20651767	20661544	- 2721	
protein_coding	dolichyl-diphosphooligosaccharide--protein			
glycosyltransferase non-catalytic	subunit [Source:HGNC			
Symbol;Acc:HGNC:2728]	-	4885 7567	8923 4082	5090
5203	98.18174328	122.6109197	151.9094555	
72.53467594	81.5169343	89.26296736		
ENSG00000104320	3806.403913	3274.918381	3180.778248	
2476.285317	2417.159376	2306.837686	3420.70018	
2400.094126	0.510956901	0.000120606	0.001906615	NBN
8	89933336	90003228	- 6156	
protein_coding	nibrin [Source:HGNC Symbol;Acc:HGNC:7652]			
3290	3533 3253	2465 2645	2351 29.22752223	-
25.30340602	24.47867509	19.36063195	18.72344085	
17.82789443				
ENSG00000111674	2377.556244	3156.268635	1938.974259	
3344.240901	4757.554522	4126.011259	2490.933046	
4075.935561	-0.710349528	0.000121177	0.001913663	EN02
12	6913745 6923698	+ 4281	protein_coding	
enolase 2 [Source:HGNC	Symbol;Acc:HGNC:3353]			
1983	3329 5206	4205 26.25193445	35.06758403	
21.45754056	37.59843635	52.99288134	45.8529	
ENSG00000204227	926.7263022	1138.296001	1057.977886	
1495.816973	1511.524237	1696.521633	1041.000063	
1567.954281	-0.590234653	0.000121871	0.001922642	RING1
6	33208495	33212722	+ 1818	
protein_coding	ring finger protein 1 [Source:HGNC			
Symbol;Acc:HGNC:10018]	-	801 1228	1082 1489	1654
1729	24.09535615	29.78094304	27.56994106	
39.60062455	39.64607736	44.39633811		
ENSG00000267209	3.470885027	2.780853423	0 53.24264577	

	47.52071363	9.812155195	2.083912817	36.85850486	
	-4.165768144	0.000122447	0.00192862	LINC01897	
	18	57961231	57964434	-	405
lincRNA	long intergenic non-protein coding RNA 1897 [Source:HGNC				
Symbol;Acc:HGNC:52716]	-	3	3	0	53 52
	10	0.405098788	0.326587975	0	6.32735298
	5.595087957	1.152632903			
ENSG00000136938	3248.748385	3753.225169	4037.32966		
2429.070141	2507.631504	2731.704006	3679.767738		
2556.135217	0.525865341	0.000122502	0.00192862	ANP32B	
	9	97983361	98015943	+	1850
protein_coding	acidic nuclear phosphoprotein 32 family member B				
[Source:HGNC Symbol;Acc:HGNC:16677]	-		2808	4049	4129
	2418	2744	2784	83.00802632	96.49615447
103.3893037	63.1954462	64.63547971	70.24954867		
ENSG00000100949	660.6251168	600.6643393	620.9019943		
851.8823323	1096.631853	1032.238726	627.3971501		
993.5843039	-0.663906288	0.000122755	0.001930581		
RABGGTA 14	24265538	24271739	-	3545	
protein_coding	Rab geranylgeranyltransferase subunit alpha				
[Source:HGNC Symbol;Acc:HGNC:9795]	-		571	648	635
	848	1200	1052	8.808756023	8.059214675
8.297742273	11.56593718	14.75107273	13.85305429		
ENSG00000069399	289.2404189	542.2664174	677.6143024		
236.0758822	229.3788292	242.3602333	503.0403796		
235.9383149	1.093657154	0.000122879	0.001930581	BCL3	
	19	44747705	44760044	+	3242
protein_coding	B cell CLL/lymphoma 3 [Source:HGNC				
Symbol;Acc:HGNC:998]	-	250	585	693	235 251
	247	4.217175851	7.955670974	9.90199448	
3.504742122	3.373799804	3.55655868			
ENSG00000125868	6935.985246	5297.52577	5567.584182		
3669.724245	4544.62517	3795.341629	5933.698399		
4003.230348	0.567498542	0.00012357	0.00193944	DSTN	
	20	17569863	17609919	+	3851
protein_coding	"destrin, actin depolymerizing factor [Source:HGNC				
Symbol;Acc:HGNC:15750]"	-	5995	5715	5694	3653 4973
	3868	85.13543934	65.42996291	68.49303331	
45.86457464	56.27344958	46.88770572			
ENSG00000163902	7067.878877	5935.268155	7673.76197		
4524.620312	4883.667185	5038.541692	6892.303001		
4815.60973	0.517187425	0.000124427	0.001950891	RPN1	
	3	128619970	128681075	-	3992
protein_coding	ribophorin I [Source:HGNC Symbol;Acc:HGNC:10381]				
-	6109	6403	7848	4504	5344 5135
83.6901421	70.71750457	91.06907335	54.55179755		
58.33571357	60.04764107				
ENSG00000075790	2512.92076	1785.307897	1805.015876		
1391.340838	1328.752262	1130.360278	2034.414844		
1283.484459	0.664008362	0.000124567	0.001951081	BCAP29	

7	107579977	107629170	+	8409	
protein_coding	B cell receptor associated protein 29 [Source:HGNC				
Symbol;Acc:HGNC:24131]	-	2172 1926	1846 1385	1454	
1152	14.12570659	10.09824465	10.16927051		
7.963548647	7.534920106	6.395200464			
ENSG00000149554	1741.227322	1692.612783	1643.679138		
1066.862072	1207.208898	1204.932658	1692.506414		
1159.667876	0.54521767	0.000125256	0.001959859	CHEK1	
11	125625136	125676255	+	6558	
protein_coding	checkpoint kinase 1 [Source:HGNC				
Symbol;Acc:HGNC:1925]	-	1505 1826	1681 1062	1321 1228	
12.55046452	12.27618201	11.87404682	7.829865843		
8.777887349	8.741238911				
ENSG00000025039	21.98227184	56.54401959	7.822387329		
127.5814342	213.8432113	76.53481052	28.78289292		
139.3198187	-2.269957037	0.000125992	0.001969367	RRAGD	
6	89364636	89412270	-	5072	
protein_coding	Ras related GTP binding D [Source:HGNC				
Symbol;Acc:HGNC:19903]	-	19 61	8 127	234	
78	0.204865614	0.530254726	0.073065641		
1.210669754	2.010458951	0.717895769			
ENSG00000031698	5064.021255	5102.86603	4546.762635		
6833.141066	6496.629869	6850.846757	4904.549973		
6726.872564	-0.455832415	0.000126218	0.001969695	SARS	
1	109213918	109238169	+	3836	
protein_coding	seryl-tRNA synthetase [Source:HGNC				
Symbol;Acc:HGNC:10537]	-	4377 5505	4650 6802	7109	
6982	62.40115969	63.27216321	56.15349736		
85.73521585	80.75855015	84.96641254			
ENSG00000117569	918.6275705	638.669336	816.4616775		
503.2936892	484.345735	397.3922854	791.2528614		
461.6772365	0.776406692	0.000126271	0.001969695	PTBP2	
1	96721665	96823738	+	12937	
protein_coding	polypyrimidine tract binding protein 2 [Source:HGNC				
Symbol;Acc:HGNC:17662]	-	794 689	835 501	530	
405	3.356461245	2.348116291	2.989890981		
1.872429023	1.785257594	1.461394542			
ENSG00000168040	362.1290045	515.3848343	387.2081728		
730.3283674	762.1591378	668.2077688	421.5740039		
720.231758	-0.771360796	0.000127041	0.001979687	FADD	
11	70203163	70207390	+	1841	
protein_coding	Fas associated via death domain [Source:HGNC				
Symbol;Acc:HGNC:3573]	-	313 556	396 727	834	
681	9.297908367	13.3154228	9.964232515		
19.09333704	19.74107779	17.26789341			
ENSG00000221829	572.6960295	692.4325022	780.2831361		
330.506235	425.8587029	424.8663199	681.8038893		
393.7437526	0.792420237	0.000127715	0.001988165	FANCG	
9	35073835	35080016	-	3614	
protein_coding	FA complementation group G [Source:HGNC				

Symbol;Acc:HGNC:3588]	-	495	747	798	329	466
433	7.490516473	9.113105784	10.22862364			
4.401583715	5.618965508	5.593012423				
ENSG00000196821	2714.232091	3474.212876	3453.584006			
4787.819806	4353.628456	4856.035606	3214.009658			
4665.827956	-0.537386374	0.000128373	0.001996381			
C6orf106	6	34587288	34696859	-		4551
protein_coding	chromosome 6 open reading frame 106					
[Source:HGNC Symbol;Acc:HGNC:21215]	-	2346	3748			3532
4766	4764	4949	28.19135075	36.31003811		
35.95144206	50.63472073	45.61666331	50.7640957			
ENSG00000136156	3291.555967	2706.697331	2724.146387			
1948.881751	2111.930177	1967.337117	2907.466562			
2009.383015	0.532616254	0.000130304	0.002024344			ITM2B
13	48232612	48270357	+	10706		
protein_coding	integral membrane protein 2B	[Source:HGNC				
Symbol;Acc:HGNC:6174]	-	2845	2920	2786	1940	2311
2005	14.53281498	12.02512419	12.05469784			
8.761444362	9.40657027	8.742450334				
ENSG00000142621	229.0784118	289.2087559	197.5152801			
433.9777919	386.5627281	555.367984	238.6008159			
458.636168	-0.941712955	0.000132787	0.00206082			FHAD1
1	15247272	15400283	+	12805		
protein_coding	forkhead associated phosphopeptide binding domain 1					
[Source:HGNC Symbol;Acc:HGNC:29408]	-	198	312	202		
432	423	566	0.84562988	1.074258922		
0.730759117	1.631193118	1.439525566	2.063397425			
ENSG00000179772	61.31896881	43.56670362	27.37835565	0		
1.827719755	8.830939675	44.08800936	3.552886477			
3.633648977	0.000134137	0.002079668	FOXS1	20		
31844301	31845619	-	1319	protein_coding		
forkhead box S1	[Source:HGNC Symbol;Acc:HGNC:3735]			Fork		
53	47	28	0	2	9	2.19748433
1.571039196	0.983367139	0	0.066076008			
0.318525165						
ENSG00000155660	3472.041989	4085.073678	5294.778424			
2528.523385	2535.0473	3154.607895	4283.964697			
2739.39286	0.645290211	0.00013457	0.002084274			PDIA4
7	149003062	149028641	-	3277		
protein_coding	protein disulfide isomerase family A member 4					
[Source:HGNC Symbol;Acc:HGNC:30167]	-	3001	4407	5415		
2517	2774	3215	50.08230016	59.29260988		
76.54634798	37.1371003	36.88829761	45.79842803			
ENSG00000167522	7830.316621	9194.428366	10273.72796			
15580.00365	11711.11433	12972.65038	9099.490982			
13421.25612	-0.560547568	0.000140368	0.002171864			
ANKRD11	16	89267619	89490561	-	19538	
protein_coding	ankyrin repeat domain 11	[Source:HGNC				
Symbol;Acc:HGNC:21316]	-	6768	9919	10507	15509	12815
13221	18.94414275	22.38317772	24.91156908			

38.37999441	28.58229538	31.58858962				
ENSG00000166189	458.1568236	685.0168931	800.8169028			
982.4775011	1221.830656	1178.439839	647.9968732			
1127.582665	-0.798017139	0.000142382	0.002199725	HPS6		
10	102065390	102068038	+	2649		
protein_coding	"HPS6, biogenesis of lysosomal organelles complex 2 subunit 3 [Source:HGNC Symbol;Acc:HGNC:18817]"					
	-	396	739			
819	978	1337	1201	8.175379852	12.29975436	
	14.32202407	17.85081762	21.99419376	21.16445477		
ENSG00000149548	673.3516953	649.7927497	775.394144			
425.9411661	405.7537856	458.2276476	699.512863			
429.9741998	0.702347029	0.000142456	0.002199725	CCDC15		
11	124954121	125041489	+	4823		
protein_coding	coiled-coil domain containing 15 [Source:HGNC Symbol;Acc:HGNC:25798]					
	-	582	701	793	424	444
467	6.59933896	6.408180175	7.616551469			
4.250595823	4.011661734	4.520075141				
ENSG00000104147	138.8354011	149.2391337	162.3145371			
37.16939421	47.52071363	75.553595	150.1296906			
53.41456761	1.491335491	0.000142852	0.002203613	OIP5		
15	41309268	41332621	-	1236		
protein_coding	Opa interacting protein 5 [Source:HGNC Symbol;Acc:HGNC:20300]					
	-	120	161	166	37	52
77	5.309547226	5.743033681	6.22145656			
1.447386341	1.833341928	2.908159957				
ENSG00000211592	10.41265508	21.31987624	63.55689705	0		
0	2.943646558	31.76314279	0.981215519			
5.031797525	0.000143569	0.002211169	IGKC	2		
88857161	88857683	-	523	IG_C_gene		
immunoglobulin	kappa constant [Source:HGNC Symbol;Acc:HGNC:5716]					
	-	9	23	65	0	3
0.94109948	1.938920959	5.757237209	0	0		
0.267772271						
ENSG00000243742	155.0328645	141.8235245	55.73450972			
386.7626155	239.4312879	288.4773627	117.5302996			
304.890422	-1.376843072	0.000143631	0.002211169			
RPLP0P2	11	61615036	61639449	+	3909	
transcribed_processed_pseudogene	ribosomal protein lateral stalk subunit P0 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:17960]					
	-	134	153	57	385	262
1.874708898	1.725677825	0.675478672	4.762075488			
2.920748879	3.510974666					
ENSG00000095002	2611.262502	2209.85152	2047.509883			
1689.700569	1513.351957	1388.41996	2289.541302			
1530.490829	0.580785502	0.000144239	0.002218298	MSH2		
2	47402969	47663146	+	13777		
protein_coding	mutS homolog 2 [Source:HGNC Symbol;Acc:HGNC:7325]					
	-	2257	2384	2094	1682	1656
8.959249134	7.629315073	7.040839991	5.902996824			
5.237985258	4.794549616					

ENSG00000163359	33677.99742	17053.12014	39222.42787	
12643.6215	8442.237548	12901.02165	29984.51514	
11328.96023	1.404202378	0.00014462	0.002221922	COL6A3
2	237324003	237414375	- 19633	
protein_coding	collagen type VI alpha 3 chain [Source:HGNC			
Symbol;Acc:HGNC:2213]	-	29109 18397	40113 12586	9238
13148	81.08403123	41.3137198	94.64570983	
30.99575913	20.50453331	31.26216599		
ENSG00000160360	917.4706088	1267.14221	1291.671708	
1734.906589	1680.588315	2077.233255	1158.761509	
1830.909386	-0.659129152	0.00014572	0.002236571	GPSM1
9	136327476	136359605	+ 5138	
protein_coding	G protein signaling modulator 1 [Source:HGNC			
Symbol;Acc:HGNC:17858]	-	793 1367	1321 1727	1839
2117	8.44060934	11.73027983	11.90998387	
16.2517246	15.59718513	19.23414093		
ENSG00000113328	1333.976812	1154.981121	1478.431205	
575.6233212	995.1934065	745.7237948	1322.463046	
772.1801742	0.77559844	0.000147242	0.002257664	CCNG1
5	163437569	163446151	+ 3096	
protein_coding	cyclin G1 [Source:HGNC Symbol;Acc:HGNC:1592]			-
1153	1246 1512 573 1089 760			20.36681263
17.74398037	22.62316146	8.948595689	15.32800119	
11.45931549				
ENSG00000105810	3783.26468	2613.075266	3695.100215	
2404.960264	2040.649106	2121.387953	3363.813387	
2188.999108	0.619653156	0.000149655	0.002292354	CDK6
7	92604921	92836594	- 12260	
protein_coding	cyclin dependent kinase 6 [Source:HGNC			
Symbol;Acc:HGNC:1777]	-	3270 2819	3779 2394	2233
2162	14.58653019	10.13767966	14.27870686	
9.441367277	7.937008596	8.232111712		
ENSG00000164077	698.8048521	667.4048214	746.0601915	
1192.43435	959.5528713	1114.66083	704.089955	
1088.882684	-0.628831229	0.000149814	0.002292496	MON1A
3	49907160	49930173	- 6446	
protein_coding	"MON1 homolog A, secretory trafficking associated			
[Source:HGNC Symbol;Acc:HGNC:28207]"	-	604 720	763	
1187	1050 1136	5.124380268	4.924658879	
5.483232896	8.903517861	7.098353044	8.226859228	
ENSG00000124813	1482.067907	1062.286007	1202.692052	
879.0059443	646.0989333	771.2353983	1249.015322	
765.4467586	0.706128591	0.000150614	0.002302441	RUNX2
6	45328157	45664349	+ 8192	
protein_coding	runt related transcription factor 2 [Source:HGNC			
Symbol;Acc:HGNC:10472]	Runt	1281 1146	1230 875	707
786	8.55172839	6.167776558	6.955328133	
5.1643935	3.760867803	4.478974999		
ENSG00000164211	1081.759167	729.5105478	935.7530843	
382.7443026	585.7841814	576.9547254	915.6742663	

515.1610698	0.828743729	0.000151774	0.002317844	STARD4
5	111496033	111512590	- 5684	
protein_coding	StAR related lipid transfer domain containing 4			
[Source:HGNC Symbol;Acc:HGNC:18058]	-	935	787	957
381	641 588	8.996058157	6.104563576	
7.799384379	3.240948447	4.914310104	4.829134402	
ENSG00000149273	28826.85711	35936.04183	32414.99529	
41329.35263	44346.87827	55747.75974	32392.63141	
47141.33021	-0.541300682	0.000152149	0.002321255	RPS3
11	75399486	75422280	+ 5894	
protein_coding	ribosomal protein S3 [Source:HGNC			
Symbol;Acc:HGNC:10420]	-	24916 38768	33151 41141	48527
56815	231.1867307	289.9994827	260.5487283	
337.4939008	358.7830436	449.98591		
ENSG00000185838	291.5543423	498.6997138	428.2757063	
608.7744025	757.5898384	880.150321	406.1765874	
748.8381873	-0.880785295	0.000153022	0.002332256	GNB1L
22	19783224	19854939	- 6988	
protein_coding	G protein subunit beta 1 like [Source:HGNC			
Symbol;Acc:HGNC:4397]	-	252 538	438 606	829
897	1.972160959	3.39440249	2.903512299	
4.192962172	5.169639178	5.992190098		
ENSG00000081803	387.5821614	225.2491272	359.8298171	
76.34794487	173.6333767	151.10719	324.2203686	
133.6961705	1.275785873	0.000153681	0.00233996	CADPS2
7	122318425	122886759	- 6351	
protein_coding	calcium dependent secretion activator 2 [Source:HGNC			
Symbol;Acc:HGNC:16018]	-	335 243	368 76	190
154	2.884678429	1.686934106	2.684158527	
0.578592362	1.303677247	1.131943224		
ENSG00000157954	2880.834573	2713.185989	2805.303656	
3953.015304	3855.574823	3722.731681	2799.774739	
3843.773936	-0.457316962	0.000154034	0.002342996	WIPI2
7	5190188 5233826	+ 8977	protein_coding	"WD
repeat domain, phosphoinositide	interacting 2 [Source:HGNC			
Symbol;Acc:HGNC:32225]"	-	2490 2927	2869 3935	4219
3794	15.16920549	14.37558263	14.80477389	
21.19408774	20.48032754	19.72932092		
ENSG00000140538	38.1797353	32.44328993	44.00092873	
5.02289111	0	4.906077597	38.20798465	3.309656236
3.54436376	0.000155361	0.002360831	NTRK3	15
87859751	88256768	-	26750	protein_coding
neurotrophic receptor tyrosine kinase 3 [Source:HGNC				
Symbol;Acc:HGNC:8033]	-	33 35	45 5	0
5	0.067465985	0.057687035	0.077927579	
0.009037482	0	0.008725539		
ENSG00000263528	350.5593877	397.6620394	525.0777495	
211.9660048	213.8432113	249.2287419	424.4330589	
225.0126527	0.916389672	0.000156489	0.002375611	IKBKE
1	206470476	206496889	+ 3791	

protein_coding	inhibitor of nuclear factor kappa B kinase subunit					
epsilon	[Source:HGNC Symbol;Acc:HGNC:14552]					
	-	303	429			
	537	211	234	254	4.371027681	4.989275271
	6.561799515	2.691100317	2.689804221	3.127706323		
ENSG00000169855	2055.920898	1522.053773	2185.37946			
1324.034097	1069.216057	1269.692882	1921.118044			
1220.981012	0.653822941	0.000157621	0.002388345			ROB01
	3	78597240	79767815	-	10875	
protein_coding	roundabout guidance receptor 1 [Source:HGNC					
Symbol;Acc:HGNC:10249]	-	1777	1642	2235	1318	1170
	1294	8.936199893	6.656989089	9.520301835		
5.859861631	4.688297839	5.554577704				
ENSG00000074695	3564.598923	2856.863416	3522.029895			
2004.133553	2195.091426	2523.686316	3314.497411			
2240.970432	0.564465942	0.00015764	0.002388345			LMAN1
	18	59327823	59359962	-	6767	
protein_coding	"lectin, mannose binding 1 [Source:HGNC					
Symbol;Acc:HGNC:6631]"	-	3081	3082	3602	1995	2402
	2572	24.89947754	20.08031013	24.65755371		
14.25436713	15.46804491	17.74274552				
ENSG00000189052	17.35442514	15.75816939	15.64477466			0
	0	16.2524564	0	6.515156856		
0.000160838	1	CGB5	19	49043884	49045311	
	+	841	protein_coding	chorionic gonadotropin subunit		
beta 5	[Source:HGNC Symbol;Acc:HGNC:16452]					
	-			15	17	
	16	0	0	0	0.975416226	0.891224021
	0.881305423	0	0	0		
ENSG00000152661	7100.273804	5527.409653	6914.012601			
3819.4064	4797.764356	4703.9472	6513.898686			
4440.372652	0.552666198	0.000165082	0.002498628			GJA1
	6	121435577	121449727	+	3413	
protein_coding	gap junction protein alpha 1 [Source:HGNC					
Symbol;Acc:HGNC:4274]	-	6137	5963	7071	3802	5250
	4794	98.33645493	77.03045782	95.97254349		
53.86132597	67.03191286	65.57039158				
ENSG00000271590	30.08100357	32.44328993	27.37835565			0
	0	3.924862078	29.96754972	1.308287359		
4.529985881	0.000166701	0.002520635	AC108463.3			2
	111210995	111212476	-	1482	lincRNA	novel
transcript	-	26	35	28	0	4
	0.959444499	1.041247085	0.875210025	0	0	0
	0.125996309					
ENSG00000108963	922.0984555	1120.683929	892.729954			
1697.737195	1240.107854	1745.582409	978.5041129			
1561.142486	-0.673363984	0.000166888	0.002520965			DPH1
	17	2030110	2043430	+	5757	protein_coding
diphthamide biosynthesis 1	[Source:HGNC Symbol;Acc:HGNC:3003]					
	-					
	797	1209	913	1690	1357	1779
	9.258998833	7.346441149	14.19357156	10.27169738		
	14.42532991					

ENSG00000182752	205.9391783	119.5766972	68.44588913			
317.4467182	358.2330719	295.3458714	131.3205882			
323.6752205	-1.305939039	0.000169009	0.00254898	PAPPA		
9	116153804	116402322	+	11573		
protein_coding	pappalysin 1 [Source:HGNC Symbol;Acc:HGNC:8602] -					
178	129	70	316	392	301	0.841140922
	0.491448162	0.280191233	1.320207957	1.476041988		
	1.214133881					
ENSG00000132394	834.1693682	907.4851669	766.5939583			
1253.713621	1247.418733	1239.275201	836.0828311			
1246.802518	-0.576352375	0.000169076	0.00254898	EEFSEC		
3	128153454	128408646	+	2421		
protein_coding	"eukaryotic elongation factor, selenocysteine-tRNA specific [Source:HGNC Symbol;Acc:HGNC:24614]" -					
784	1248	1365	1263	16.28677843	17.82878962	979
	15.00112152	24.92418765	24.56950799	24.35311934		
ENSG00000212907	12325.11273	9612.483331	13897.44889			
18226.06268	16392.81848	17628.51802	11945.01498			
17415.79973	-0.544020567	0.000172229	0.002593951	MT-		
ND4L	MT	10470	10766	+	297	protein_coding
mitochondrially	encoded NADH:ubiquinone oxidoreductase core subunit 4L [Source:HGNC Symbol;Acc:HGNC:7460] -					
18143	17938	17966	1961.598815	1539.416953	10653	10370 14213
2216.826797	2953.614883	2631.941113	2823.845827			
ENSG00000149639	2173.930989	1903.030692	3637.410108			
1583.215278	1215.433637	1612.137098	2571.457263			
1470.262004	0.806726119	0.000172923	0.002601844	SOGA1		
20	36777442	36863686	-	15128		
protein_coding	"suppressor of glucose, autophagy associated 1 [Source:HGNC Symbol;Acc:HGNC:16111]" -					
1576	1330	1643	6.792661565	5.983308442	1879	2053 3720
11.39105319	5.037045963	3.831146178	5.069931405			
ENSG00000145604	1167.374331	1053.943447	1390.429348			
789.5984825	679.9117488	830.1083295	1203.915709			
766.5395203	0.65152318	0.000173095	0.002601879	SKP2		
5	36151989	36184319	+	3837		
protein_coding	S-phase kinase associated protein 2 [Source:HGNC Symbol;Acc:HGNC:10901] -					
846	14.38116535	13.06479572	17.16762637	1422	786	744
9.904486476	8.449669729	10.29258826				
ENSG00000228624	3.470885027	0.926951141	0	25.11445555		
20.1049173	43.17348286	1.465945389	29.46428524			
-4.395147731	0.000173499	0.002605383	HDAC2-AS2			
6	113969701	114471705	+	8063		
antisense	HDAC2 and HS3ST5 antisense RNA 2 [Source:HGNC Symbol;Acc:HGNC:43590] -					
44	0.020347887	0.005468111	0	25	22	
	0.118900757	0.254742879	0	0.149914819		
ENSG00000110203	11.56961676	24.10072966	2.933395248			
43.19686355	102.3523063	86.34696571	12.86791389			

77.29871184	-2.581023547	0.000173956	0.002608608	FOLR3
11	72114869	72139892	+ 1396	
protein_coding	folate receptor 3	[Source:HGNC	Symbol;Acc:HGNC:3795]	
-	10 26	3 43	112 88	
0.391750261	0.821148847	0.099549319	1.489307079	
3.496159215	2.942681708			
ENSG00000128791	1943.695615	1395.061467	1422.696696	
847.8640194	1145.980286	958.6475625	1587.151259	
984.1639561	0.688599251	0.000174225	0.002608608	TWSG1
18	9334767 9402420	+ 4435	protein_coding	
twisted gastrulation BMP signaling modulator 1	[Source:HGNC	Symbol;Acc:HGNC:12429]	- 1680 1505	1455 844
977	20.71621312	14.96155846	15.19748855	1254
9.201317971	12.32146961	10.28364262		
ENSG00000104907	1538.759029	1459.948047	1333.71704	
2431.079297	1845.996952	2177.317238	1444.141372	
2151.464496	-0.575156867	0.000174226	0.002608608	TRMT1
19	13104902	13117567	- 3364	
protein_coding	tRNA methyltransferase 1	[Source:HGNC	Symbol;Acc:HGNC:25980]	- 1330 1575
2219	21.62172635	20.64232108	18.78282183	2020
34.78248411	26.16700275	30.79267023		
ENSG00000072274	9126.113698	9134.176542	11652.42373	
7393.695714	6100.928542	7189.366111	9970.904655	
6894.663456	0.532325766	0.000175569	0.002626143	TFRC
3	196027183	196082189	- 7887	
protein_coding	transferrin receptor	[Source:HGNC	Symbol;Acc:HGNC:11763]	- 7888 9854
7327	54.69527042	55.08516759	69.99347478	6676
45.1198025	36.88612935	43.36710051		
ENSG00000164054	2787.120677	3418.595807	3028.241695	
4048.450235	4698.15363	4374.258786	3077.98606	
4373.620883	-0.506631514	0.000176141	0.002632131	SHISA5
3	48467798	48504826	- 4664	
protein_coding	shisa family member 5	[Source:HGNC	Symbol;Acc:HGNC:30376]	- 2409 3688
4458	28.24704169	34.86312625	30.75991418	5141
41.77800725	48.03387901	44.61979372		
ENSG00000136167	3157.348413	3904.318205	3069.309228	
5011.84075	4848.94051	4609.75051	3376.991949	
4823.51059	-0.5141357	0.000177185	0.002640961	LCP1
13	46125920	46211871	- 5061	
protein_coding	lymphocyte cytosolic protein 1	[Source:HGNC	Symbol;Acc:HGNC:6528]	- 2729 4212
4698	29.48912668	36.69323338	28.73144272	5306
47.66267174	45.68667017	43.33339454		
ENSG00000137834	247.5897986	292.9165605	534.8557336	
164.7508284	116.9740643	183.4873021	358.4540309	
155.0707316	1.210428183	0.000177186	0.002640961	SMAD6
15	66702228	66782848	+ 8563	

protein_coding	SMAD family member 6 [Source:HGNC						
Symbol;Acc:HGNC:6772]	MH1	214	316	547	164	128	
	187	1.366729417	1.627028261	2.959128591			
0.926017343	0.651392304	1.019440066					
ENSG00000157557	2091.78671	1977.186783	2455.251823				
1446.59264	1582.805308	1437.480736	2174.741772				
1488.959561	0.546467962	0.000177563	0.002640961			ETS2	
	21	38805307	38824955	+	4595		
protein_coding	"ETS proto-oncogene 2, transcription factor						
[Source:HGNC Symbol;Acc:HGNC:3489]"	ETS	1808	2133	2511			
	1440	1732	1465	21.51828341	20.4662982		
25.3141677	15.15228718	16.42558968	14.88326261				
ENSG00000148356	358.6581195	345.7527755	395.0305601				
738.3649932	607.7168185	528.875165	366.480485				
624.9856589	-0.769892107	0.000177584	0.002640961			LRSAM1	
	9	127451486	127503501	+	4365		
protein_coding	leucine rich repeat and sterile alpha motif containing						
1 [Source:HGNC Symbol;Acc:HGNC:25135]	-	310	373	404			
	735	665	539	3.883936837	3.767545811		
4.287454981	8.141497756	6.638897982	5.764352794				
ENSG00000149948	3274.201542	3685.557736	2612.677368				
4659.233794	4831.577172	4536.159347	3190.812215				
4675.656771	-0.551229719	0.000177596	0.002640961			HMGA2	
	12	65824131	65966295	+	15403		
protein_coding	high mobility group AT-hook 2 [Source:HGNC						
Symbol;Acc:HGNC:5009]	HMGI/HMGY	2830	3976	2672	4638		
	5287	4623	10.04791223	11.38085836	8.035882801		
	14.55883571	14.95762334	14.0108542				
ENSG00000067704	5576.555277	5110.281639	5307.489803				
3946.987834	3970.721167	3877.763733	5331.44224				
3931.824245	0.439225332	0.000178085	0.002645662			IARS2	
	1	220094102	220148041	+	4165		
protein_coding	"isoleucyl-tRNA synthetase 2, mitochondrial						
[Source:HGNC Symbol;Acc:HGNC:29685]"	-	4820	5513	5428			
	3929	4345	3952	63.2887831	58.35887949		
60.37084978	45.61085775	45.46041257	44.29431257				
ENSG00000139117	635.17196	507.042274	477.1656271				
299.3643102	322.5925367	317.9138283	539.793287				
313.2902251	0.783764057	0.000178278	0.002645958			CPNE8	
	12	38646822	38907430	-	5178		
protein_coding	copine 8 [Source:HGNC Symbol;Acc:HGNC:23498]						
	549	547	488	298	353	324	5.798357802
	4.657568364	4.365763762	2.782629817	2.970785237			
	2.920982802						
ENSG00000125650	99.49870411	168.7051076	141.7807703				
359.6390035	259.5362052	265.9094058	136.6615274				
295.0282048	-1.106634348	0.000178893	0.002652505			PSPN	
	19	6375148	6379058	-	3911	protein_coding	
persephin [Source:HGNC Symbol;Acc:HGNC:9579]							
	145	358	284	271	1.202556107	2.051717345	

	1.717444225	4.425847313	3.164383577	3.234651604	
ENSG00000125170	137.6784394	214.1257135	162.3145371		
255.1628684	409.4092251	418.9790268	171.3728967		
361.1837068	-1.073762283	0.000179202	0.002654511		DOK4
16	57471922	57487327	-	4788	
protein_coding	docking protein 4 [Source:HGNC Symbol;Acc:HGNC:19868]				
-	119	231	166	254	448 427
1.35921304	2.127119045	1.606040165	2.564961149		
4.077392033	4.16312805				
ENSG00000276043	4823.373226	6003.862539	5973.370524		
3793.287366	3370.315228	4345.803536	5600.202097		
3836.46871	0.545924702	0.000179874	0.002661885		UHRF1
19	4903080	4962154 +	5145		protein_coding
ubiquitin like with PHD and ring finger domains 1	[Source:HGNC Symbol;Acc:HGNC:12556]				
-		4169	6477	6109	3776 3688
4429	44.3140281	55.50376912	55.00310438		
35.48524622	31.23662695	40.18521877			
ENSG00000145241	715.0023156	633.1076292	701.0814644		
427.9503226	461.4992381	331.6508456	683.0638031		
407.0334688	0.746251763	0.000180337	0.002666163		CENPC
4	67468748	67545606	-	8613	
protein_coding	centromere protein C [Source:HGNC Symbol;Acc:HGNC:1854]				
-		618	683	717	426 505
338	3.923997668	3.496231766	3.856267607		
2.391422816	2.555027205	1.831927529			
ENSG00000111237	915.1566855	780.4928606	814.5060807		
506.3074239	590.3534808	476.8707425	836.7185422		
524.5105491	0.672905147	0.000181361	0.002678711		VPS29
12	110491097	110502117	-	3211	
protein_coding	"VPS29, retromer complex component [Source:HGNC Symbol;Acc:HGNC:14340]"				
-		791	842	833	504 646
486	13.47196329	11.56127533	12.01730688		
7.589120478	8.766996036	7.065485338			
ENSG00000169764	1588.508381	1279.192574	1269.182344		
603.7515114	973.2607694	900.7558469	1378.9611		
825.9227093	0.738740388	0.000182817	0.002697615		UGP2
2	63840940	63891562	+	6501	
protein_coding	UDP-glucose pyrophosphorylase 2 [Source:HGNC Symbol;Acc:HGNC:12527]				
-		1373	1380	1298	601 1065
918	11.55008244	9.359073939	9.249046912		
4.469876484	7.138846429	6.591868741			
ENSG00000237765	542.6150259	433.8131339	381.3413823		
292.3322626	228.4649694	188.3933797	452.5898474		
236.3968706	0.936432197	0.000183008	0.002697821		
FAM200B	4	15681662	15705565	+	4817
protein_coding	family with sequence similarity 200 member B [Source:HGNC Symbol;Acc:HGNC:27740]				
-				469	468 390
291	250	192	5.324648077	4.283543334	
3.750510766	2.920905854	2.261632103	1.86067541		
ENSG00000166886	497.4935206	853.7220007	687.3922866		

1078.91701	1131.358528	1227.500615	679.5359359	
1145.925385	-0.752440648	0.000184428	0.002716132	NAB2
12	57088894	57095476	+ 3010	
protein_coding	NGFI-A binding protein 2 [Source:HGNC			
Symbol;Acc:HGNC:7627]	-	430 921	703 1074	1238
1251	7.81261949	13.49047038	10.81910374	
17.25198223	17.92308427	19.40156888		
ENSG00000064666	3092.558559	3832.942967	4559.474015	
2202.035463	2491.182026	2813.144894	3828.32518	
2502.120794	0.613760538	0.000184812	0.002719174	CNN2
19	1026581 1039068	+ 3645	protein_coding	
calponin 2 [Source:HGNC	Symbol;Acc:HGNC:2156]	-	2673	4135
4663	2192 2726	2867	40.10478005	50.01634353
59.26118597	29.07664095	32.59019182	36.71776146	
ENSG00000196141	2567.297958	2362.798458	2705.568218	
1826.323208	1742.730786	1849.591254	2545.221545	
1806.215083	0.494798238	0.000185119	0.002721068	
SPATS2L 2	200305881	200482263	+ 10437	
protein_coding	spermatogenesis associated serine rich 2 like			
[Source:HGNC	Symbol;Acc:HGNC:24574]	-	2219 2549	2767
1818	1907 1885	11.62723182	10.76782801	
12.28106221	8.42208096	7.962209626	8.431050816	
ENSG00000205809	139.9923628	104.7454789	122.224802	
46.21059821	40.20983461	45.1359139	122.3208812	
43.85211557	1.479354083	0.00018566	0.002726403	KLRC2
12	10426854	10442300	- 1499	
protein_coding	killer cell lectin like receptor C2 [Source:HGNC			
Symbol;Acc:HGNC:6375]	-	121 113	125 46	44
46	4.414468785	3.323615446	3.86287661	
1.483738669	1.279115146	1.432525082		
ENSG00000172164	369.0707746	339.2641176	411.6531332	
204.9339573	214.7570712	198.2055349	373.3293418	
205.9655211	0.857773378	0.000187089	0.002744745	SNTB1
8	120535745	120813273	- 6868	
protein_coding	syntrophin beta 1 [Source:HGNC	Symbol;Acc:HGNC:11168]		
-	319 366	421 204	235 202	
2.54012512	2.349550354	2.839581023	1.436154282	
1.491063618	1.372989193			
ENSG00000181649	317.0074991	442.1556942	540.7225241	
155.7096244	161.7531983	286.5149317	433.2952392	
201.3259181	1.106987524	0.000188215	0.002758624	PHLDA2
11	2928273 2929455	- 955	protein_coding	
pleckstrin homology like domain	family A member 2 [Source:HGNC			
Symbol;Acc:HGNC:12385]	-	274 477	553 155	177
292	15.69068501	22.02160485	26.8240417	
7.847467813	8.076598473	14.27333687		
ENSG00000136231	1406.865398	1342.225252	1433.452478	
1004.578222	965.9498904	885.0563986	1394.181043	
951.8615037	0.550525124	0.000190149	0.002784304	
IGF2BP3 7	23310209	23470467	- 8511	

protein_coding	insulin like growth factor 2 mRNA binding protein 3						
[Source:HGNC Symbol;Acc:HGNC:28868]	-	1216	1448	1466			
1000	1057 902	7.813537434	7.501047737				
7.979135415	5.68094554	5.411940267	4.947342564				
ENSG00000102554	264.9442237	279.0122934	205.3376674				
414.8908057	575.7317228	408.1856561	249.7647282				
466.2693949	-0.901269754	0.000190433	0.002785791				KLF5
13	73054976	73077542	+	3893			
protein_coding	Kruppel like factor 5 [Source:HGNC						
Symbol;Acc:HGNC:6349]	zf-C2H2	229 301	210 413	630			
416	3.216960967	3.408914038	2.498833657				
5.129403507	7.052039618	4.988327548					
ENSG00000186111	1420.748938	1510.003408	1989.819777				
2515.463868	2336.739707	2564.897368	1640.190708				
2472.366981	-0.591667047	0.000193705	0.002830939				
PIP5K1C 19	3630183 3700479 -	6963	protein_coding				
phosphatidylinositol-4-phosphate 5-kinase type 1 gamma	[Source:HGNC						
Symbol;Acc:HGNC:8996]	-	1228 1629	2035 2504	2557			
2614	9.644876797	10.31474859	13.53849766				
17.38758019	16.00268773	17.5248869					
ENSG00000175040	1211.338874	1828.874601	1740.481181				
2237.1957	3312.742056	2320.574704	1593.564885				
2623.504153	-0.718819365	0.000196875	0.002874522				CHST2
3	143119331	143124014	+	4582			
protein_coding	carbohydrate sulfotransferase 2 [Source:HGNC						
Symbol;Acc:HGNC:1970]	-	1047 1973	1780 2227	3625			
2365	12.49644004	18.98479703	17.99564318				
23.4999181	34.47557544	24.09473177					
ENSG00000078269	2959.507966	2669.619286	3012.59692				
2140.756191	2042.476826	2000.698444	2880.574724				
2061.310487	0.4827044	0.000199754	0.002913775				SYNJ2
6	157981887	158099176	+	12493			
protein_coding	synaptojanin 2 [Source:HGNC Symbol;Acc:HGNC:11504]						
-	2558 2880	3081 2131	2235 2039				
11.19769187	10.16388414	11.42424252	8.24741648				
7.795956106	7.618974528						
ENSG00000114315	281.1416872	230.8108341	436.0980936				
137.6272164	162.6670582	140.3138193	316.0168716				
146.8693646	1.105174556	0.000202338	0.002948662				HES1
3	194136145	194138732	+	2062			
protein_coding	hes family bHLH transcription factor 1 [Source:HGNC						
Symbol;Acc:HGNC:5192]	bHLH	243 249	446 137	178			
143	6.444842751	5.324080877	10.01956008				
3.212425929	3.761750082	3.237378009					
ENSG00000049860	3038.18136	3063.57352	3010.641323				
2237.1957	2095.480699	2277.401221	3037.465401				
2203.359207	0.463239788	0.00020308	0.002956644				HEXB
5	74640023	74722647	+	5067			
protein_coding	hexosaminidase subunit beta [Source:HGNC						
Symbol;Acc:HGNC:4879]	-	2626 3305	3079 2227	2293			

2321	28.34252447	28.75772441	28.14888783	
21.25056734	19.72021966	21.38308055		
ENSG00000122862	809.873173	905.6312646	765.6161599	
447.0373088	591.2673407	498.4574839	827.0401992	
512.2540445	0.690803124	0.00020426	0.002971008	SRGN
10	69088106	69104811	+ 1220	
protein_coding	serglycin [Source:HGNC Symbol;Acc:HGNC:9361]			-
700	977	783	445	647
35.3076401	29.73064883	17.63605306	508	31.37855369
19.43792569				23.11016508
ENSG00000196154	5971.079208	6671.267361	8162.661178	
2656.104819	4357.283896	5308.37596	6935.002582	
4107.254892	0.755726667	0.000205461	0.002985636	S100A4
1	153543613	153550136	- 1025	
protein_coding	S100 calcium binding protein A4 [Source:HGNC Symbol;Acc:HGNC:10494]			-
5410	275.3624432	309.5719446	377.2776088	4768
124.7207753	202.7080422	246.3879338		
ENSG00000143153	573.8529912	467.183375	534.8557336	
319.4558746	332.6449954	262.9657592	525.2973666	
305.0222097	0.783334518	0.000207305	0.003009558	ATP1B1
1	169105697	169132722	+ 2962	
protein_coding	ATPase Na+/K+ transporting subunit beta 1 [Source:HGNC Symbol;Acc:HGNC:804]			-
268	9.157803805	7.502041119	8.554698894	364
5.190907408	5.355190532	4.223726376		
ENSG00000177363	91.39997238	229.8838829	141.7807703	
349.5932213	320.764817	377.767975	154.3548752	
349.3753377	-1.174334929	0.000208663	0.003025025	
LRRN4CL 11	62686402	62689899	- 2585	
protein_coding	LRRN4 C-terminal like [Source:HGNC Symbol;Acc:HGNC:33724]			-
385	1.671326336	4.229851215	2.598423352	351
6.509084552	5.917049014	6.952583572		
ENSG00000138071	9038.184611	8074.671388	8452.089509	
6421.263995	6271.820339	6326.87767	8521.648503	
6339.987334	0.426580489	0.000208766	0.003025025	ACTR2
2	65227753	65271253	+ 4347	
protein_coding	ARP2 actin related protein 2 homolog [Source:HGNC Symbol;Acc:HGNC:169]			-
6448	98.28048866	88.35117538	92.1144098	6863
71.09651984	68.79913159	69.24388468		
ENSG00000230838	24.29619519	4.634755704	21.51156516	0
0	0	16.81417202	0	6.561924333
0.000208773	1	LINC01614	2	215718043
215719424	+ 648	lincRNA long intergenic non-protein coding RNA 1614 [Source:HGNC Symbol;Acc:HGNC:51847]		- 21
5	22	0	0	1.772307199
0.340195807	1.572715369	0	0	
ENSG00000187498	2942.153541	1999.433611	6012.482461	

1202.480132	706.4136852	927.2486659	3651.356538	
945.3808276	1.94953022	0.0002099	0.003038586	COL4A1
13	110148963	110307233	- 14738	
protein_coding	collagen type IV alpha 1 chain	[Source:HGNC		
Symbol;Acc:HGNC:2202]	-	2543 2157	6149 1197	773
945	9.436316973	6.45276057	19.32717578	
3.926963048	2.28559638	2.993224506		
ENSG00000128272	5141.537687	5577.465014	4738.411125	
6847.205161	7245.994968	7025.503119	5152.471275	
7039.56775	-0.450199109	0.000211175	0.003054149	ATF4
22	39519695	39522685	+ 2514	
protein_coding	activating transcription factor 4	[Source:HGNC		
Symbol;Acc:HGNC:786]	TF_bZIP	4444 6017	4846 6816	7929
7160	96.67262017	105.5233806	89.2936534	
131.088781	137.4395556	132.9516663		
ENSG00000185269	87.92908735	49.12841046	159.3811418	
11.05036044	14.62175804	37.28618974	98.81287988	
20.98610274	2.235927122	0.000212247	0.003063951	NOTUM
17	81952507	81961840	- 3019	
protein_coding	"notum, palmitoleoyl-protein carboxylesterase	[Source:HGNC		
Symbol;Acc:HGNC:27106]"	-	76 53		163
11	16 38	1.376718638	0.774010255	
2.501076336	0.176169527	0.230948671	0.587579343	
ENSG00000140199	945.2376891	932.5128477	771.4829504	
1324.034097	1373.531396	1268.711667	883.077829	
1322.092386	-0.582555985	0.000212254	0.003063951	
SLC12A6 15	34229996	34338060	- 10056	
protein_coding	solute carrier family 12 member 6	[Source:HGNC		
Symbol;Acc:HGNC:10914]	-	817 1006	789 1318	1503
1293	4.443155416	4.410691412	3.634579681	
6.337111698	6.513168498	6.002322086		
ENSG00000075618	9558.817365	10424.49253	8588.003489	
11647.07991	13787.40397	15368.77868	9523.771128	
13601.08752	-0.514113093	0.000212751	0.003068237	FSCN1
7	5592823 5606655	+ 3692	protein_coding	fascin
actin-bundling	protein 1	[Source:HGNC		
Symbol;Acc:HGNC:11148]	-	8262 11246 8783 11594 15087	15663 122.3821873	
8262	11246 8783	11594 15087	15663 122.3821873	
134.2982473	110.2005206	151.8353239	178.0737054	
198.0429065				
ENSG00000185090	350.5593877	636.8154338	402.8529475	
805.6717341	825.2154693	852.6762864	463.4092563	
827.8544966	-0.835354451	0.000213098	0.003070334	MANEAL
1	37793802	37801137	+ 3018	
protein_coding	mannosidase endo-alpha like	[Source:HGNC		
Symbol;Acc:HGNC:26452]	-	303 687	412 802	903
869	5.490578509	10.03624974	6.323833638	
12.84861599	13.03848443	13.44146411		
ENSG00000103047	667.5668869	803.6666391	674.6809072	
1080.926167	1105.770452	1067.562485	715.3048111	
1084.753035	-0.600132571	0.0002144	0.003086196	TANG06

16	68843604	69085180	+	6839	
protein_coding	transport and golgi organization	6 homolog			
[Source:HGNC Symbol;Acc:HGNC:25749]		-	577	867	690
1076	1210	1088	4.614003527	5.589339011	
4.673679669	7.607130806	7.709946498	7.426468229		
ENSG00000111843	3183.958532	2915.261338	3323.536817		
1984.041988	2291.960573	2366.691833	3140.918895		
2214.231465	0.504233113	0.000218308	0.003139482		
TMEM14C	6	10722915	10731129	+	1321
protein_coding	transmembrane protein 14C		[Source:HGNC		
Symbol;Acc:HGNC:20952]	-	2752	3145	3399	1975
2412	113.9305843	104.9667595	119.1930143		2508
72.28788175	82.7338648	85.23550168			
ENSG00000149016	503.2783289	674.8204305	532.9001368		
922.2028078	961.380591	848.7514243	570.3329654		
910.7782744	-0.674323808	0.000218889	0.003144878		TUT1
11	62575045	62592177	-	4082	
protein_coding	"terminal uridylyl transferase 1, U6 snRNA-specific				
[Source:HGNC Symbol;Acc:HGNC:26184]"	-		435	728	545
918	1052	865	5.827884946	7.86307353	
6.184804236	10.87353852	11.23055805	9.892114689		
ENSG00000107984	122.6379376	136.2618177	229.7826278		
66.30216265	53.91773277	63.77900877	162.8941277		
61.33296806	1.410964417	0.000221246	0.003175295		DKK1
10	52314296	52318042	+	2206	
protein_coding	dickkopf WNT signaling pathway inhibitor 1				
[Source:HGNC Symbol;Acc:HGNC:2891]	-		106	147	235
66	59	65	2.62781671	2.937959364	
4.934746071	1.446570632	1.165480741	1.375478747		
ENSG00000168569	764.7516676	904.7043135	771.4829504		
1081.930745	1483.194581	1249.087356	813.6463105		
1271.404227	-0.643767438	0.000221421	0.003175295		
TMEM223	11	62771629	62792021	-	2280
protein_coding	transmembrane protein 223		[Source:HGNC		
Symbol;Acc:HGNC:28464]	-	661	976	789	1077
1273	15.85482034	18.87334717	16.03040933		1623
22.83926233	31.02003408	26.06391151			
ENSG00000155755	1198.612296	1036.331375	966.0648352		
603.7515114	721.9493032	731.9867775	1067.002836		
685.895864	0.636798091	0.000222057	0.003181431		
TMEM237	2	201620184	201643570	-	7647
protein_coding	transmembrane protein 237		[Source:HGNC		
Symbol;Acc:HGNC:14432]	-	1036	1118	988	601
746	7.409064541	6.44591644	5.985057267		790
3.800008765	4.501887094	4.554007831			
ENSG00000177602	380.6403913	386.5386257	461.5208524		
195.8927533	239.4312879	246.2850954	409.5666232		
227.2030455	0.850050178	0.000222326	0.003182298		HASPIN
17	3723903	3726699	+	2797	protein_coding
histone H3 associated protein kinase			[Source:HGNC		

Symbol;Acc:HGNC:19682]	-	329	417	472	195	262
251	6.432771786	6.573210595	7.817213765			
3.370880537	4.081947575	4.189163308				
ENSG0000014641	2230.622111	2405.43821	2381.916942			
1593.26106	1782.026761	1606.249805	2339.325754			
1660.512542	0.49448882	0.000222684	0.003184438			MDH1
2	63588609	63607197	+	4990		
protein_coding	malate dehydrogenase 1 [Source:HGNC					
Symbol;Acc:HGNC:6970]	-	1928	2595	2436	1586	1950
1637	21.13008269	22.92824293	22.61409406			
15.36752237	17.02913794	15.31419489				
ENSG00000267519	485.9239038	586.7600722	552.4561051			
926.2211207	717.3800038	1014.576847	541.7133604			
886.0593239	-0.708842355	0.00022331	0.003190416			
AC020916.1	19	13823880	13842928	-		19049
antisense	novel transcript		-	420		633
565	922	785	1034	1.205790399	1.465093988	
1.373974656	2.340237616	1.795792166	2.533928713			
ENSG00000160285	2473.584063	3265.648869	4432.36022			
2090.52728	1899.000825	2296.044316	3390.531051			
2095.190807	0.694744632	0.000223602	0.003191598			LSS
21	46188141	46228824	-	7238		
protein_coding	lanosterol synthase [Source:HGNC Symbol;Acc:HGNC:6708]					
-	2138	3523	4533	2081	2078	2340
16.15413972	21.45991623	29.01146073	13.90127766			
12.51081385	15.091879					
ENSG00000205903	1529.503335	2556.531246	2677.212063			
3858.584951	3193.940272	3989.622302	2254.415548			
3680.715842	-0.706666051	0.000224171	0.003196743			ZNF316
7	6637322	6656432	+	5811	protein_coding	zinc
finger protein 316	[Source:HGNC Symbol;Acc:HGNC:13843]					
-						1322
2758	2738	3841	3495	4066	12.44157301	
20.92557229	21.82654646	31.95910792	26.20926865			
32.66348614						
ENSG00000152767	1003.085773	755.4651798	999.3099813			
552.5180221	580.3010222	599.5226824	919.286978			
577.4472422	0.670214334	0.000224593	0.003199765			FARP1
13	98142562	98455176	+	36228		
protein_coding	"FERM, ARH/RhoGEF and pleckstrin domain protein 1					
[Source:HGNC Symbol;Acc:HGNC:3591]"	-		867	815		1022
550	635	611	1.308788442	0.991852763		
1.306799599	0.734039696	0.763814615	0.787304778			
ENSG00000132031	82.14427898	41.71280134	63.55689705			
10.04578222	17.36333767	1.962431039	62.47132579			
9.790516977	2.665972544	0.00022496	0.003202016			MATN3
2	19992111	20012694	-	3118		
protein_coding	matrilin 3 [Source:HGNC Symbol;Acc:HGNC:6909]					
-						
71	45	65	10	19	2	1.245308495
0.636312362	0.965694375	0.155069043	0.265543752			
0.029943318						

ENSG00000151693	610.8757648	449.5713033	589.6124449		
317.4467182	281.4688422	350.2939405	550.0198377		
316.403167	0.797285082	0.000227466	0.003234671	ASAP2	
2	9206765	9405683	+	7257	
protein_coding	"ArfGAP with SH3 domain, ankyrin repeat and PH domain				
2 [Source:HGNC	Symbol;Acc:HGNC:2721]"	-	528	485	603
316	308	357	3.978977764	2.946582285	
3.849130582	2.105383311	1.849490867	2.296450713		
ENSG00000225697	643.2706917	647.0118963	878.0629777		
467.1288732	356.4053522	449.3967079	722.7818552		
424.3103111	0.769214127	0.000231231	0.003285154		
SLC26A6	3	48625723	48635493	-	6373
protein_coding	solute carrier family 26 member 6 [Source:HGNC				
Symbol;Acc:HGNC:14472]	-	556	698	898	465
458	4.771177633	4.828869426	6.527319543		390
3.527851135	2.666731472	3.354807424			
ENSG00000051825	613.1896881	461.6216681	840.9066379		
370.6893639	307.0569188	363.0497422	638.5726647		
346.9320083	0.880376648	0.000233093	0.00330853		
MPHOSPH9	12	123152320	123244014	-	10304
protein_coding	M-phase phosphoprotein 9 [Source:HGNC				
Symbol;Acc:HGNC:7215]	-	530	498	860	369
370	2.812967615	2.130872432	3.866295616		336
1.731496957	1.420993283	1.676262039			
ENSG00000109472	894.3313753	680.3821374	796.9057092		
424.9365879	408.4953652	574.0110789	790.5397406		
469.1476773	0.75239073	0.000236477	0.003353449	CPE	
4	165361194	165498320	+	2958	
protein_coding	carboxypeptidase E [Source:HGNC Symbol;Acc:HGNC:2303]				
-	773	734	815	423	447
14.29144154	10.94036593	12.76326819	6.914223505		
6.58518456	9.23216871				
ENSG00000196586	1291.16923	1256.945747	1155.757728		
906.1295563	827.9570489	718.2497603	1234.624235		
817.4454552	0.594777635	0.000236988	0.003357586	MY06	
6	75749192	75919537	+	8785	
protein_coding	myosin VI [Source:HGNC Symbol;Acc:HGNC:7605]				
1116	1356	1182	902	906	732
6.805372185	6.232727886	4.964391098	4.494123777		
3.889693231					
ENSG00000273319	13.88354011	12.97731597	19.55596832	0	
0	0	15.4722748	0	6.444776214	
0.000238037	1	AC058791.1	7	130936464	
130939661	+	3198	lincRNA novel transcript	-	
12	14	20	0	0	0.205209518
0.193011655	0.289703667	0	0	0	
ENSG00000054654	988.0452711	793.4701766	1434.430277		
588.6828381	541.9189073	703.5315275	1071.981908		
611.3777576	0.810304956	0.000239722	0.003393177	SYNE2	
14	63852983	64226433	+	31374	

protein_coding	spectrin repeat containing nuclear envelope protein 2						
[Source:HGNC Symbol;Acc:HGNC:17084]	-	854	856	1467			
586	593	717	1.48861603	1.202923005			
2.166021073	0.903085648	0.82365132	1.066830195				
ENSG00000104228	1008.870581	1192.059167	935.7530843				
1464.675048	1572.752849	1629.798978	1045.560944				
1555.742292	-0.573015031	0.000240405	0.003399691	TRIM35			
8	27284887	27311319	-	4269			
protein_coding	tripartite motif containing 35						
[Source:HGNC Symbol;Acc:HGNC:16285]	-	872	1286	957	1458	1721	
1661	11.17081972	13.28155031	10.38456332				
16.51325113	17.56763555	18.16308074					
ENSG00000148300	923.2554172	1348.71391	1264.293352				
1877.556697	1729.022888	1828.004513	1178.754226				
1811.528033	-0.618984043	0.00024121	0.003407934	REX04			
9	133406059	133418096	-	2654			
protein_coding	"REX4 homolog, 3'-5' exonuclease						
[Source:HGNC Symbol;Acc:HGNC:12820]"	-	798	1455	1293	1869	1892	
1863	16.44359174	24.17107872	22.56836318				
34.04941066	31.06553314	32.76860642					
ENSG00000118473	37.02277362	27.80853423	42.04533189				
3.013734666	6.397019142	1.962431039	35.62554658				
3.791061616	3.221964246	0.000243496	0.003437055	SGIP1			
1	66533383	66748299	+	10477			
protein_coding	SH3 domain GRB2 like endophilin interacting protein 1						
[Source:HGNC Symbol;Acc:HGNC:25412]	-	32	30	43			
3	7	2	0.167035102	0.126246187			
0.190122697	0.013844763	0.029115194	0.008911259				
ENSG00000129911	705.7466222	1341.298301	1297.538498				
1732.897433	1971.195756	2019.341539	1114.86114				
1907.811576	-0.774076093	0.000243974	0.003440615	KLF16			
19	1852399	1863568	-	2955			
Kruppel like factor 16	[Source:HGNC Symbol;Acc:HGNC:16857]						zf-
C2H2	610	1447	1327	1725	2157	2058	11.28930126
	21.58962027	20.80251738	28.22492722	31.80909093			
	32.51126897						
ENSG00000173692	4125.725336	3424.157514	4293.512845				
3085.05972	2537.78888	2555.085213	3947.798565				
2725.977937	0.534244767	0.000244283	0.003441804	PSMD1			
2	231056864	231172827	+	5187			
protein_coding	"proteasome 26S subunit, non-ATPase 1						
[Source:HGNC Symbol;Acc:HGNC:9554]"	-	3566	3694	4391	3071	2777	
2604	37.59757234	31.3989121	39.21476754				
28.62627143	23.33018752	23.43531351					
ENSG00000047410	6370.230986	6174.421549	6933.568569				
4867.181486	4208.324735	5012.048873	6492.740368				
4695.851698	0.467514642	0.000244803	0.003445953	TPR			
1	186311652	186375693	-	12350			
protein_coding	"translocated promoter region, nuclear basket protein						
[Source:HGNC Symbol;Acc:HGNC:12017]"	-	5506	6661	7091			

4845	4605	5108	24.38169882	23.77970343	
26.59763265	18.96828386		16.24879931	19.30767442	
ENSG00000142546	2238.720843		2998.686941	2909.928086	
3930.914583	3590.555458		4562.652166	2715.778623	
4028.040736	-0.568292036		0.000246957	0.003473071	NOSIP
19	49555711		49590262	-	4248
protein_coding	nitric oxide synthase interacting protein [Source:HGNC				
Symbol;Acc:HGNC:17946]	-		1935	3235	2976
4650	24.91100071		33.57559634	32.45270295	3913
44.53757394	40.30473949		51.09924468		3929
ENSG00000119669	1181.257871		1748.229852	1527.321126	
2684.233009	2498.492905		1893.745953	1485.60295	
2358.823956	-0.666410613		0.000249085	0.003499779	
IRF2BPL	14	77024543	77028699	-	4157
protein_coding	interferon regulatory factor 2 binding protein like				
[Source:HGNC	Symbol;Acc:HGNC:14282]		-	1021	1886
2672	2734	1930	13.43199218	20.00302243	1562
17.40617962	31.07832799		28.66005922	21.67321406	
ENSG00000182580	76.3594706		56.54401959	199.4708769	
30.13734666	27.41579632		27.47403455	110.7914557	
28.34239251	1.967769201		0.000249406	0.00350107	EPHB3
3	184561784		184582409	+	4532
protein_coding	EPH receptor B3 [Source:HGNC				
Symbol;Acc:HGNC:3394]	-		66	61	204
0.796432084	0.593436004		2.085176021	0.320060862	30
0.288462891	0.288412558				28
ENSG00000131844	1793.290597		1666.658151	2018.175931	
1311.979158	1265.69593		1210.819951	1826.04156	
1262.83168	0.532053938		0.000250509	0.003512343	MCCC2
5	71587288		71658704	+	6034
protein_coding	methylcrotonoyl-CoA carboxylase 2 [Source:HGNC				
Symbol;Acc:HGNC:6937]	-		1550	1798	2064
1234	14.0482137		13.13766972	15.84553266	1306
10.4649965	10.00237345		9.54675747		1385
ENSG00000172340	1896.260186		2028.169096	2073.910441	
1234.626635	1537.112314		1370.758081	1999.446574	
1380.832343	0.533991424		0.000250668	0.003512343	SUCLG2
3	67360460		67654614	-	3090
protein_coding	succinate-CoA ligase GDP-forming beta subunit				
[Source:HGNC	Symbol;Acc:HGNC:11450]		-	1639	2188
1229	1682	1397	29.00782635	31.21927377	2121
31.79689003	19.23067906		23.72062402	21.10493226	
ENSG00000130830	1077.13132		1196.693923	1305.360886	
703.2047554	864.511444		783.9912001	1193.062043	
783.9024665	0.605995962		0.000250983	0.003513535	MPP1
X	154778684		154821007	-	5396
protein_coding	membrane palmitoylated protein 1 [Source:HGNC				
Symbol;Acc:HGNC:7219]	-		931	1291	1335
799	9.43566368		10.54844054	11.46071679	700
6.272307125	7.639726182		6.912272871		946

ENSG00000129038	2173.930989	2411.926868	3068.33143	
1659.563223	1623.015142	1831.929375	2551.396429	
1704.835913	0.581939858	0.000254622	0.003561217	LOXL1
15	73925989	73952137	+ 3637	
protein_coding	lysyl oxidase like 1 [Source:HGNC			
Symbol;Acc:HGNC:6665]	-	1879 2602	3138 1652	1776
1867	28.25388621	31.54263345	39.9679703	
21.96180132	21.27934511	23.96332361		
ENSG00000100985	167.759443	282.720098	939.6642779	
66.30216265	68.53949081	83.40331915	463.381273	
72.7483242	2.671499408	0.00025611	0.003578745	MMP9
20	46008908	46016561	+ 2336	
protein_coding	matrix metalloproteinase 9 [Source:HGNC			
Symbol;Acc:HGNC:7176]	-	145 305	961 66	75
85	3.394609924	5.756532473	19.05693291	
1.366067986	1.399094414	1.698603924		
ENSG00000131876	866.5642951	825.9134665	928.9084954	
598.7286203	564.7654042	557.3304151	873.795419	
573.6081465	0.607278179	0.000258167	0.003602266	SNRPA1
15	101281510	101295282	- 3669	
protein_coding	small nuclear ribonucleoprotein polypeptide			
A' [Source:HGNC	Symbol;Acc:HGNC:11152]	-	749 891	950
596	618 568	11.16423112	10.70690502	
11.99439507	7.854160367	7.340055793	7.226810382	
ENSG00000180182	1874.277915	1682.416321	1805.993675	
1330.061566	1148.721866	1253.012218	1787.562637	
1243.931883	0.523048378	0.000258264	0.003602266	MED14
X	40648306	40735858	- 9656	
protein_coding	mediator complex subunit 14 [Source:HGNC			
Symbol;Acc:HGNC:2370]	-	1620 1815	1847 1324	1257
1277	9.175135151	8.287305146	8.860782863	
6.629670505	5.672788845	6.173616899		
ENSG00000184678	87.92908735	86.2064561	93.86864795	
258.1766031	251.3114663	132.4640951	89.33473047	
213.9840548	-1.260341702	0.00025948	0.003615929	
HIST2H2BE	1 149884459	149886652	-	2194
protein_coding	histone cluster 2 H2B family member e			
[Source:HGNC	Symbol;Acc:HGNC:4760]	-	76 93	96
257	275 135	1.894399986	1.868875124	
2.026922136	5.663667076	5.462037385	2.872388512	
ENSG00000131174	1565.369147	1699.101441	1925.285081	
1012.614848	1262.040491	1205.913873	1729.918557	
1160.189737	0.576390067	0.000259724	0.003616026	COX7B
X	77899438	77907373	+ 3024	
protein_coding	cytochrome c oxidase subunit 7B [Source:HGNC			
Symbol;Acc:HGNC:2291]	-	1353 1833	1969 1008	1381
1229	24.46869021	26.7248106	30.16243403	
16.1168425	19.90079791	18.97213175		
ENSG00000144645	238.3341052	222.4682738	278.6725486	
118.5402302	101.4384464	138.3513882	246.4916425	

119.4433549	1.045903589	0.000260046	0.003617213		
OSBPL10 3	31657890	32077580	-	11976	
protein_coding	oxysterol binding protein like 10 [Source:HGNC				
Symbol;Acc:HGNC:16395]	-	206	240	285	118
141	0.940697838	0.883554641	1.102390669		111
0.476399653	0.40389622	0.549608399			
ENSG0000010165	2514.077721	2473.105644	2411.250894		
3459.767397	3312.742056	3300.809007	2466.144753		
3357.77282	-0.445285698	0.000260837	0.003622482		
METTL13 1	171781664	171814023	+	3827	
protein_coding	methyltransferase like 13 [Source:HGNC				
Symbol;Acc:HGNC:24248]	-	2173	2668	2466	3444
3364	31.05245756	30.73698895	29.84950035		3625
43.51168453	41.277002	41.03397228			
ENSG00000119705	1349.017314	1062.286007	1128.379372		
701.195599	805.110552	807.5403725	1179.894231		
771.2821745	0.612549341	0.000260898	0.003622482		SLIRP
14	77708071	77761104	+	2631	
protein_coding	SRA stem-loop interacting RNA binding protein				
[Source:HGNC Symbol;Acc:HGNC:20495]	-		1166	1146	1154
698	881	823	24.23664017	19.20426665	
20.31830225	12.82731592	14.59196093	14.6024263		
ENSG00000066044	3955.651969	3935.834544	4275.912474		
2825.878539	3002.029697	3084.941593	4055.799662		
2970.949943	0.449066413	0.000262679	0.003643896		ELAVL1
19	7958579	8005659	-	6956	protein_coding
like RNA binding protein 1 [Source:HGNC Symbol;Acc:HGNC:3312]					ELAV
3419	4246	4373	2813	3285	3144
26.91252055	29.12207794	19.55290883	20.57948007		
21.09934628					
ENSG00000177839	17.35442514	16.68512054	23.46716199		
89.40746176	86.81668835	51.02320701	19.16890255		
75.74911904	-1.98159224	0.000264151	0.003660989		PCDHB9
5	141187127	141191541	+	4415	
protein_coding	protocadherin beta 9 [Source:HGNC				
Symbol;Acc:HGNC:8694]	-	15	18	24	89
52	0.185804088	0.179752838	0.251815808		95
0.974676545	0.937673182	0.549817643			
ENSG00000074410	3551.872344	4428.972551	2451.340629		
4377.951892	6705.90378	6269.967169	3477.395175		
5784.607614	-0.734211379	0.000268183	0.003713506		CA12
15	63321378	63382161	-	7313	
protein_coding	carbonic anhydrase 12 [Source:HGNC				
Symbol;Acc:HGNC:1371]	-	3070	4778	2507	4358
6390	22.95818308	28.80610437	15.88039192		7338
28.81329124	43.7260988	40.78977602			
ENSG00000172172	1202.083181	1233.771968	975.8428193		
556.536335	700.0166661	841.8829157	1137.232656		
699.4786389	0.700958861	0.000269345	0.003726228		MRPL13
8	120380761	120445402	-	4209	

protein_coding	mitochondrial ribosomal protein L13 [Source:HGNC					
Symbol;Acc:HGNC:14278]	-	1039	1331	998	554	766
858	13.49992434	13.94225712		10.9838368		
6.364027615	7.930643752	9.515999224				
ENSG00000100353	6392.213258	6558.179321		5618.429699		
8276.719971	8685.324275	8212.773898		6189.607426		
8391.606048	-0.439134689	0.000270392		0.00373733		EIF3D
22	36510850	36529436		-	4070	
protein_coding	eukaryotic translation initiation factor 3 subunit D					
[Source:HGNC Symbol;Acc:HGNC:3278]	-			5525	7075	5746
8239	9504	8370	74.23908078	76.64185241		
65.39938559	97.8771489		101.7584812	96.00129349		
ENSG00000196550	203.6252549		101.0376744	206.3154658		
62.28384977	40.20983461		78.49724156	170.3261317		
60.33030864	1.497464192		0.000271152	0.003744438		FAM72A
1	206186179		206204414	-	3783	
protein_coding	family with sequence similarity 72 member A					
[Source:HGNC Symbol;Acc:HGNC:24044]	-			176	109	211
62	44	80	2.544315943	1.270352114		
2.583738578	0.792422074		0.506844727	0.987187577		
ENSG00000261221	754.3390126		1146.638561	1360.117597		
1892.62537	1538.026174		2034.059772	1087.031724		
1821.570439	-0.74384921		0.000271571	0.003746848		ZNF865
19	55605405		55617269	+	4005	
protein_coding	zinc finger protein 865 [Source:HGNC					
Symbol;Acc:HGNC:38705]	zf-C2H2	652	1237	1391	1884	1683
2073	8.903070001		13.61761768	16.08892641		
22.74466761	18.3121861		24.16255288			
ENSG00000174945	128.422746		160.3625474	222.9380389		
83.37999243	52.09001301		17.66187935	170.5744441		
51.0439616	1.74205015		0.000272075	0.003747685		AMZ1
7	2679522	2775500	+	7011	protein_coding	
archaelysin	family metallopeptidase 1 [Source:HGNC					
Symbol;Acc:HGNC:22231]	-	111	173	228	83	57
18	0.865840157		1.087927849	1.506459067		
0.572399627	0.354285588		0.119850148			
ENSG00000189308	903.5870687		748.0495707	841.8844363		
462.1059821	602.2336592		492.5701908	831.1736919		
518.969944	0.678526018		0.000272122	0.003747685		LIN54
4	82909973		83012926	-	6768	
protein_coding	lin-54 DREAM MuvB core complex component [Source:HGNC					
Symbol;Acc:HGNC:25397]	-	781	807	861	460	659
502	6.310814237		5.257110948	5.893119628		
3.286235616	4.24310386		3.462496977			
ENSG00000132196	426.9188583		365.2187495	533.8779352		
270.2315417	166.3224977		251.191173	442.005181		
229.2484041	0.948043561		0.000274154	0.003772267		
HSD17B7	1	162790702	162812817	+	4778	
protein_coding	hydroxysteroid 17-beta dehydrogenase 7 [Source:HGNC					
Symbol;Acc:HGNC:5215]	-	369	394	546	269	182

256	4.22352368	3.635666465	5.293573568	
2.722120531	1.659907321	2.501150677		
ENSG00000186960	1080.602205	883.3844372	809.6170886	
569.5958519	547.4020666	635.8276566	924.534577	
584.2751917	0.661488924	0.000275283	0.003784394	
LINC01551	14	28772704	28813453	+
	lincRNA	long intergenic non-protein coding RNA	1551	2772
[Source:HGNC Symbol;Acc:HGNC:19828]		-	934	953
567	599	648	18.42673385	15.15771136
13.83692435	9.889880623	9.416558184	10.91258943	
ENSG00000108828	5217.897157	6202.230083	5907.85803	
6772.866373	8806.867639	9857.291109	5775.99509	
8479.008373	-0.553746322	0.000276277	0.003794652	VAT1
17	43014605	43025123	-	3501
protein_coding	vesicle amine transport 1	[Source:HGNC		
Symbol;Acc:HGNC:16919]	-	4510	6691	6042
10046	70.44969932	84.26221614	79.94495566	6742
93.11032744	119.9522354	133.9513512		9637
ENSG00000156113	404.9365865	416.2010622	282.5837423	
145.6638422	168.1502174	235.4917247	367.9071303	
183.1019281	1.006458024	0.000277412	0.003806824	KCNMA1
10	76869601	77638369	-	35644
protein_coding	potassium calcium-activated channel subfamily M	alpha		
1 [Source:HGNC Symbol;Acc:HGNC:6284]	-	350	449	289
145	184	240	0.537002518	0.555384639
0.375589864	0.196690228	0.224952066	0.314319151	
ENSG00000182179	411.8783566	399.5159417	645.3469547	
130.5951689	233.9481286	308.1016731	485.5804176	
224.2149902	1.114701415	0.000277835	0.003809202	UBA7
3	49805207	49813946	-	4545
protein_coding	ubiquitin like modifier activating enzyme 7			
[Source:HGNC Symbol;Acc:HGNC:12471]	-	356	431	660
130	256	314	4.283618871	4.180972784
6.726861775	1.382963383	2.454509263	3.225089686	
ENSG00000144659	1327.035042	1454.38634	1235.937198	
1964.955002	2043.390686	1776.00009	1339.119527	
1928.115259	-0.525824503	0.000278257	0.003811568	
SLC25A38	3	39383324	39397351	+
	protein_coding	solute carrier family 25 member 38		2708
[Source:HGNC Symbol;Acc:HGNC:26054]	-	1147	1569	1264
1956	2236	1810	23.16378209	25.54513732
21.62224927	34.92379312	35.98170486	31.20153431	
ENSG00000101940	758.9668593	669.2587237	689.3478834	
963.3905149	1107.598171	1118.585692	705.8578221	
1063.19146	-0.591636699	0.000280144	0.003833148	WDR13
X	48590042	48608867	+	7884
protein_coding	WD repeat domain 13	[Source:HGNC		
Symbol;Acc:HGNC:14352]	-	656	722	705
1140	4.550424746	4.037611605	4.142332509	959
5.881298309	6.699071328	6.750007752		1212

ENSG00000100413	1170.845216	1162.396731	1271.137941		
1868.515493	1599.254785	1717.127159	1201.459962		
1728.299146	-0.524358878	0.000280334	0.003833148	POLR3H	
22	41525804	41544606	-	6594	
protein_coding	RNA polymerase III subunit H [Source:HGNC				
Symbol;Acc:HGNC:30349]	-	1012	1254	1300	1860
1750	8.393175079	8.384603917	9.132651078		1750
13.63845634	11.56505503	12.3889683			
ENSG00000183527	1707.675433	1778.819239	1668.124098		
1108.049779	1271.179089	1227.500615	1718.206257		
1202.243161	0.515074763	0.000281951	0.003851823	PSMG1	
21	39174769	39183851	-	2515	
protein_coding	proteasome assembly chaperone 1 [Source:HGNC				
Symbol;Acc:HGNC:3043]	-	1476	1919	1706	1103
1251	32.0954213	33.64115851	31.42269957		1391
21.20502259	24.10170344	23.22016792			
ENSG00000206417	33.5518886	14.83121825	36.1785414	0	
1.827719755	2.943646558	28.18721608	1.590455438		
4.137893924	0.000282676	0.003858276	H1FX-AS1		
3	129315392	129326225	+	3420	
antisense	H1FX antisense RNA 1 [Source:HGNC				
Symbol;Acc:HGNC:27953]	-	29	16	37	0
3	0.463731508	0.206266089	0.501161931		2
	0.0254837	0.0409488			0
ENSG00000164171	1929.812075	1485.902679	1341.539427		
2732.452764	2316.634789	2206.753703	1585.751394		
2418.613752	-0.60957904	0.000283713	0.003868976	ITGA2	
5	52989326	53094779	+	7910	
protein_coding	integrin subunit alpha 2 [Source:HGNC				
Symbol;Acc:HGNC:6137]	-	1668	1603	1372	2720
2249	11.53225603	8.934926758	8.034892741		2535
16.62622437	13.9656154	13.27269173			
ENSG00000213442	1800.232367	1916.934959	1976.130599		
2566.697357	2471.077109	3203.668671	1897.765975		
2747.147712	-0.533416793	0.00028832	0.003928297		
RPL18AP3	12	104265309	104265836	+	528
	processed_pseudogene	ribosomal protein L18a pseudogene 3			
[Source:HGNC Symbol;Acc:HGNC:31387]	-		1556	2068	2021
2555	2704	3265	161.1648702	172.6833916	
177.3106602	233.9689351	223.1677128	288.6657771		
ENSG00000076201	2352.103087	2642.737703	2973.484984		
4171.008778	3270.704501	4206.470932	2656.108591		
3882.72807	-0.547441761	0.000290372	0.003952731	PTPN23	
3	47381011	47413441	+	5981	
protein_coding	"protein tyrosine phosphatase, non-receptor type 23				
[Source:HGNC Symbol;Acc:HGNC:14406]"	-		2033	2851	3041
4152	3579	4287	18.5890968	21.01635389	
23.55293717	33.56485373	26.07633152	33.45998307		
ENSG00000131018	1768.994402	1808.481676	1196.825261		
2578.752296	2135.690534	2781.745998	1591.43378		

2498.729609	-0.650947825	0.000291467	0.003964102	SYNE1
6	152121684	152637801	- 46064	
protein_coding	spectrin repeat	containing nuclear	envelope protein 1	
[Source:HGNC	Symbol;Acc:HGNC:17089]	-	1529 1951	1224
2567	2337 2835	1.815267159	1.867366571	
1.230898454	2.694420894	2.210831596	2.873012077	
ENSG00000206053	2466.642293	2241.367859	2630.277739	
1678.650209	1799.390099	1747.54484	2446.095964	
1741.861716	0.489700249	0.000294658	0.004003944	JPT2
16	1678256 1702280 +	4768	protein_coding	
Jupiter microtubule associated	homolog 2 [Source:HGNC			
Symbol;Acc:HGNC:14137]	-	2132 2418	2690 1671	1969
1781	24.45376117	22.35908401	26.13475836	
16.94499401	17.99567193	17.43707793		
ENSG00000106976	1243.733801	1265.288307	1936.040864	
948.3218416	808.7659915	973.3657953	1481.687658	
910.1512095	0.703481386	0.000297102	0.004033562	DNM1
9	128191655	128255248	+ 10775	
protein_coding	dynamins 1 [Source:HGNC			
Symbol;Acc:HGNC:2972]	-			
1075	1365 1980	944 885	992 5.456144934	
5.585336337	8.512367545	4.23599981	3.57918865	
4.297742877				
ENSG00000148834	2903.973806	2879.110243	2149.200919	
3376.387404	4465.119361	4029.852138	2644.094989	
3957.119635	-0.581882585	0.000297365	0.004033562	GSTO1
10	104235356	104267459	+ 1691	
protein_coding	glutathione S-transferase	omega 1 [Source:HGNC		
Symbol;Acc:HGNC:13312]	-	2510 3106	2198 3361	4886
4107	81.17547276	80.982616	60.21248294	
96.10060491	125.9123857	113.3775665		
ENSG00000177311	3772.852025	2160.723109	3070.287027	
1860.478867	1769.232723	2042.890712	3001.287387	
1890.867434	0.666177549	0.000298061	0.004039408	ZBTB38
3	141324213	141449792	+ 14243	
protein_coding	zinc finger and BTB domain	containing 38 [Source:HGNC		
Symbol;Acc:HGNC:26636]	ZBTB	3261 2331	3140 1852	1936
2082	12.52114478	7.215638335	10.21246614	
6.286960396	5.923282915	6.823784243		
ENSG00000162244	21061.33034	20972.26956	20805.5947	
24973.8146	28677.83681	34677.13767	20946.3982	
29442.9297	-0.491222962	0.000298938	0.00404771	RPL29
3	51993522	51995942	- 2058	
protein_coding	ribosomal protein L29 [Source:HGNC			
Symbol;Acc:HGNC:10331]	-	18204 22625	21278 24860	31381
35341	483.7446435	484.704638	478.9474771	
584.059336	664.4770814	801.6402216		
ENSG00000097021	2987.275047	3221.155214	3542.563662	
1965.95958	2333.084267	2496.212282	3250.331308	
2265.085376	0.521088114	0.000299647	0.004053714	ACOT7
1	6264269 6394391 -	4124	protein_coding	acyl-

CoA thioesterase 7 [Source:HGNC Symbol;Acc:HGNC:24157]	-					2582
3475	3623	1957	2553	2544	34.23988474	
37.15096596	40.69603829		22.94422461		26.97682011	
28.79681698						
ENSG00000130725	3254.533194		3984.036003		3790.924459	
5162.527483	4728.311006		5569.379289		3676.497886	
5153.405926	-0.486907182		0.000301821		0.004079527	UBE2M
19	58555712		58558960		-	1831
protein_coding	ubiquitin conjugating enzyme E2 M [Source:HGNC					
Symbol;Acc:HGNC:12491]	-		2813	4298	3877	5139
5676	84.01872768		103.4932499		98.08665235	5174
135.7036378	123.1392993		144.7105114			
ENSG00000155265	363.2859662		162.2164496		512.3663701	
164.7508284	148.95916		98.12155195		345.956262	
137.2771801	1.332936606		0.000302285		0.004080199	
GOLGA7B 10	97850239		97871580		+	6458
protein_coding	golgin A7 family member B [Source:HGNC					
Symbol;Acc:HGNC:31668]	-		314	175	524	164
100	2.659048876		1.194741546		3.758683021	163
1.227854833	1.099887234		0.722849683			
ENSG0000011677	503.2783289		523.7273946		491.8326033	
233.0621475	314.3677978		331.6508456		506.2794423	
293.0269303	0.788525873		0.000302405		0.004080199	GABRA3
X	152166234		152451358		-	4193
protein_coding	gamma-aminobutyric acid type A receptor alpha3 subunit					
[Source:HGNC Symbol;Acc:HGNC:4077]	-				435	565
232	344	338	5.673605139		5.940972518	503
5.557066302	2.675249792		3.575132795		3.763031673	
ENSG00000115255	247.5897986		348.533629		179.9149086	
494.2524852	433.1695819		571.0674323		258.6794454	
499.4964998	-0.948203067		0.000303428		0.004090395	REEP6
19	1490747	1497927	+	2449	protein_coding	
receptor accessory protein 6 [Source:HGNC Symbol;Acc:HGNC:30078]						
-	214	376	184	492	474	582
4.778809308	6.769132541		3.480418702		9.713540027	
8.434282714	11.09379753					
ENSG00000144713	13821.06418		17191.23586		16446.56936	
19607.35774	22055.09428		25494.92284		15819.62313	
22385.79162	-0.500812039		0.00030856		0.004151381	RPL32
3	12834485		12841588		-	3720
protein_coding	ribosomal protein L32 [Source:HGNC					
Symbol;Acc:HGNC:10336]	-		11946	18546	16820	19518
25983	175.6201255		219.8068758		209.4524802	24134
253.6842999	282.7124708		326.0561448			
ENSG00000105355	3547.244498		3876.509671		3469.228781	
4690.375719	4765.779261		5939.297539		3630.994316	
5131.817506	-0.499013719		0.000308693		0.004151381	PLIN3
19	4838341	4867768	-	2813	protein_coding	
perilipin 3 [Source:HGNC Symbol;Acc:HGNC:16893]						
-					3066	4182
3548	4669	5215	6053	59.60698169	65.546311	

	58.4273696	80.25190646	80.78731573	100.4493146	
ENSG00000120699	1597.764074	1284.754281	1287.760514		
917.1799167	954.069712	938.0420366	1390.092956		
936.4305551	0.569293577	0.000308767	0.004151381	EXOSC8	
13	36998816	37009613	+	3630	
protein_coding	exosome component 8 [Source:HGNC				
Symbol;Acc:HGNC:17035]	-	1381	1386	1317	913
956	20.8056729	16.8341256	16.80666741		1044
12.16089025	12.53292588	12.2941159			
ENSG00000129910	20.82531016	25.0276808	25.42275882		0
0	1.962431039	23.75858326	0.65414368		
5.198999087	0.000311286	0.004181569	CDH15	16	
89171767	89195492	+	4628	protein_coding	
cadherin 15 [Source:HGNC	Symbol;Acc:HGNC:1754]				
-			18		27
26	0	0	2	0.212703124	0.257219786
0.260245035	0	0	0.020173566		
ENSG00000105974	13689.17055	9039.627526	9397.620578		
6520.717239	7086.069489	7783.0015	10708.80622		
7129.92941	0.586696155	0.000312771	0.004197834	CAV1	
7	116524785	116561184	+	4082	
protein_coding	caveolin 1 [Source:HGNC Symbol;Acc:HGNC:1527]				
-					
11832	9752	9611	6491	7754	7932
105.3306223	109.0681716	76.8846825			158.5184705
90.7101199					82.77732619
ENSG00000115648	1855.766528	1566.547428	2007.420148		
1263.759403	844.4065267	1299.129348	1809.911368		
1135.765093	0.67246752	0.000314012	0.004210411	MLPH	
2	237485428	237555318	+	7514	
protein_coding	melanophilin [Source:HGNC Symbol;Acc:HGNC:29643]				
-					
11.67422034	1604	1690	2053	1258	924
5.358699185	9.91629577	12.65669208	8.094884693		
8.225509915					
ENSG00000100228	344.7745794	372.6343586	238.5828135		
543.4768181	559.282245	563.2177082	318.6639172		
555.3255904	-0.801565196	0.000314259	0.004210411	RAB36	
22	23145326	23164350	+	4107	
protein_coding	"RAB36, member RAS oncogene family [Source:HGNC				
Symbol;Acc:HGNC:9775]"	-	298	402	244	541
574	3.968133493	4.315541608	2.752121349		612
6.369037101	6.493596771	6.524289527			
ENSG00000198056	585.4226079	597.8834858	617.968599		
377.7214115	406.6676454	261.0033282	600.4248976		
348.4641284	0.784703588	0.000315312	0.004219687	PRIM1	
12	56731596	56752373	-	2437	
protein_coding	DNA primase subunit 1 [Source:HGNC				
Symbol;Acc:HGNC:9369]	-	506	645	632	376
266	11.35506698	11.66912101	12.01334654		445
7.459909043	7.957251404	5.095327969			
ENSG00000140319	3839.955802	3310.142524	3267.802307		
2511.445555	2548.755198	2466.775816	3472.633544		

2508.99219	0.468662994	0.000315503	0.004219687	SRP14
15	40035739	40039188	- 2005	
protein_coding	signal recognition particle 14	[Source:HGNC		
Symbol;Acc:HGNC:11299]	-	3319 3571	3342 2500	2789
2514	90.52897188	78.52526871	77.21372854	
60.28744076	60.61676219	58.53248092		
ENSG00000112379	106.4404742	159.4355962	91.91305112	
222.0117871	318.0232373	243.3414488	119.2630405	
261.1254911	-1.129083722	0.000316181	0.00422505	
ARFGEF3 6	138161921	138344663	+ 14877	
protein_coding	ARFGEF family member 3	[Source:HGNC		
Symbol;Acc:HGNC:21213]	-	92 172	94 221	348
248	0.338194996	0.509738037	0.292694759	
0.718254122	1.019348008	0.778184101		
ENSG00000164535	888.5465669	1106.779662	896.6411476	
1524.949741	1352.512619	1425.70615	963.9891256	
1434.389503	-0.572666438	0.000317607	0.004240404	DAGLB
7	6409126 6484190	- 5756	protein_coding	
diacylglycerol lipase beta	[Source:HGNC	Symbol;Acc:HGNC:28923]	-	
768	1194 917	1518 1480	1453 7.296845445	
9.145711542	7.379908992	12.75123362	11.20468181	
11.78394929				
ENSG00000232679	38.1797353	101.9646255	29.33395248	
233.0621475	180.9442557	126.576802	56.49277109	
180.1944017	-1.668094579	0.00031899	0.004255149	
LINC01705	1 222041705	222064763	-	562
lincRNA	long intergenic non-protein coding RNA 1705			
[Source:HGNC	Symbol;Acc:HGNC:52493]	-	33 110	30
232	198 129	3.211236837	8.629593281	
2.472790906	19.95964836	15.35279576	10.715179	
ENSG00000173852	3447.745794	2780.853423	3208.156603	
2261.305578	2183.211247	2281.326083	3145.585273	
2241.947636	0.488340369	0.00031991	0.004261804	
DPY19L1 7	34928876	35038271	- 6278	
protein_coding	dpy-19 like C-mannosyltransferase 1	[Source:HGNC		
Symbol;Acc:HGNC:22205]	-	2980 3000	3281 2251	2389
2325	25.95910203	21.06851382	24.20958667	
17.33625954	16.58263097	17.28811655		
ENSG00000186340	894.3313753	845.3794405	1542.965901	
700.1910208	600.4059395	555.367984	1094.225572	
618.6549814	0.823053852	0.000320046	0.004261804	THBS2
6	169215780	169254044	- 6412	
protein_coding	thrombospondin 2	[Source:HGNC	Symbol;Acc:HGNC:11786]	
-	773 912	1578 697	657 566	
6.592963827	6.270978079	11.4002911	5.255819972	
4.465092432	4.120680603			
ENSG00000044090	1956.422194	2398.022601	2119.866966	
3109.169597	2819.257722	3233.105137	2158.10392	
3053.844152	-0.500443151	0.000320585	0.004265259	CUL7
6	43037617	43053945	- 5628	

protein_coding	cullin 7 [Source:HGNC Symbol;Acc:HGNC:21024]						-
	1691	2587	2168	3095	3085	3295	16.43176562
	20.26638543		17.844634		26.58935369		23.88689373
	27.33048672						
ENSG00000136717	1479.753983			1770.476679		2124.755958	
1045.765929	1124.961509			1320.716089		1791.662207	
1163.814509	0.62281615			0.000323152		0.004295673	BIN1
	2	127048027		127107355		-	6929
protein_coding	bridging integrator 1 [Source:HGNC						
Symbol;Acc:HGNC:1052]	-			1279	1910	2173	1041
	1346	10.09472973		12.15337123		14.52752464	1231
7.264092816	7.741873831			9.068188399			
ENSG00000187741	2123.024675			2088.42092		2503.163945	
1596.274795	1257.471191			1669.047599		2238.20318	
1507.597862	0.570377935			0.000323765		0.004300085	FANCA
	16	89737549		89816657		-	9736
protein_coding	FA complementation group A [Source:HGNC						
Symbol;Acc:HGNC:3582]	-			1835	2253	2560	1589
	1701	10.30742578		10.20268749		12.18040856	1376
7.891227217	6.158805181			8.155860413			
ENSG00000184371	3142.307911			3394.495078		7977.857277	
1600.293108	1172.482223			1539.52715		4838.220089	
1437.43416	1.75103581			0.000324471		0.004305613	CSF1
	1	109910242		109930992		+	5418
protein_coding	colony stimulating factor 1 [Source:HGNC						
Symbol;Acc:HGNC:2432]	-			2716	3662	8159	1593
	1569	27.41482498		29.79979643		69.75902279	1283
14.21601888	10.31920531			13.51854586			
ENSG00000176619	7351.334487			9616.191135		13471.12878	
6899.443229	5495.039443			6751.743989		10146.21813	
6382.075554	0.66896691			0.000324745		0.004305613	LMNB2
	19	2427638	2456996	-	5432	protein_coding	lamin
B2 [Source:HGNC	Symbol;Acc:HGNC:6638]						-
	6868	6013	6881	63.97085598		84.20161867	13777
117.4890394	61.13244161			48.23808299		59.13407835	
ENSG00000141429	1789.819712			1136.442099		1671.057493	
966.4042496	958.6390114			985.1403815		1532.439768	
970.0612142	0.659134216			0.000329144		0.004360156	GALNT1
	18	35581117		35711834		+	5126
protein_coding	polypeptide N-acetylgalactosaminyltransferase 1						
[Source:HGNC	Symbol;Acc:HGNC:4123]						-
	962	1049	1004	16.50465401		10.5449816	1709
15.44421777	9.073977262			8.91775392		9.143261624	
ENSG00000107249	718.4732006			481.0876421		804.7280965	
441.0098395	351.8360528			329.6884145		668.0963131	
374.1781023	0.83607797			0.000332057		0.004394942	GLIS3
	9	3824127	4348392	-	11826	protein_coding	GLIS
family zinc finger 3 [Source:HGNC	Symbol;Acc:HGNC:28510]						zf-
C2H2	621	519	823	439	385	336	2.871761959
	1.934921905		3.223772723		1.794848771		1.418670221

1.326317313							
ENSG00000140350	2254.918306	2305.327487	2557.920657				
1409.423245	1733.592187	1783.849814	2372.72215				
1642.288416	0.530801056	0.000332961	0.00440309			ANP32A	
15	68778535	68820897	-	7544			
protein_coding	acidic nuclear phosphoprotein 32 family member A						
[Source:HGNC Symbol;Acc:HGNC:13233]	-		1949	2487		2616	
1403	1897	1818	14.12878681	14.53476664			
16.06343853	8.992018832	10.95782219	11.2496299				
ENSG00000273119	28.92404189	13.90426711	29.33395248			0	
0	1.962431039	24.05408716	0.65414368				
5.214554028	0.000333866	0.004411248	AP005229.2			18	
11390033	11390729	-	697	lincRNA	novel		
transcript	-	25	15	30	0	0	2
1.961561565	0.948838807	1.993842883	0			0	
0.133950165							
ENSG00000198720	537.9871792	682.2360397	599.3904291				
1040.743038	944.0172534	848.7514243	606.5378827				
944.5039052	-0.637996746	0.000335772	0.004432602				
ANKRD13B	17	29589769	29614761	+		3971	
protein_coding	ankyrin repeat domain 13B [Source:HGNC						
Symbol;Acc:HGNC:26363]	-	465	736	613	1036	1033	
865	6.403947731	8.171690043	7.150938504				
12.61423986	11.33597899	10.16862558					
ENSG00000171310	296.182189	345.7527755	394.0527617				
212.9705831	169.9779372	174.6563625	345.3292421				
185.8682942	0.895014422	0.000336555	0.004439101			CHST11	
12	104455295	104762014	+	6492			
protein_coding	carbohydrate sulfotransferase 11 [Source:HGNC						
Symbol;Acc:HGNC:17422]	-	256	373	403	212	186	
178	2.156533291	2.533169665	2.875603416				
1.57891433	1.248512891	1.279933856					
ENSG00000138764	512.5340223	378.1960655	452.7206667				
221.0072088	304.3153392	206.0552591	447.8169182				
243.7926024	0.875542453	0.00033779	0.004451546			CCNG2	
4	77157151	77433388	+	7471			
protein_coding	cyclin G2 [Source:HGNC Symbol;Acc:HGNC:1593]						-
443	408	463	220	333	210	3.242796552	
2.407772138	2.870811719	1.423787451	1.942334816				
1.312159395							
ENSG00000163171	1280.756575	1208.744288	1773.726327				
815.7175163	981.4855083	909.5867865	1421.07573				
902.2632704	0.655325385	0.000338128	0.004452166				
CDC42EP3	2	37641882	37738468	-		10406	
protein_coding	CDC42 effector protein 3 [Source:HGNC						
Symbol;Acc:HGNC:16943]	-	1107	1304	1814	812	1074	
927	5.817796313	5.524942058	8.075248894				
3.772883752	4.497581662	4.1585502					
ENSG00000148331	570.3821061	668.3317726	724.5486264				
939.2806376	1165.171344	953.7414849	654.420835				

1019.397822	-0.638908445	0.000338726	0.004456194	ASB6
9	129634604	129642169	- 4622	
protein_coding	ankyrin repeat and SOCS box containing 6 [Source:HGNC			
Symbol;Acc:HGNC:17181]	-	493 721	741 935	1275
972	5.83326479	6.877637497	7.426611789	
9.780991607	12.0209514	9.817080667		
ENSG0000069122	15.04050178	3.707804563	78.22387329	0
2.741579632	0	32.32405988	0.913859877	
5.104066537	0.000339897	0.00446776	ADGRF5 6	
46852512	46954943	- 6650	protein_coding	
adhesion G protein-coupled receptor F5 [Source:HGNC				
Symbol;Acc:HGNC:19030]	-	13 4	80 0	3
0	0.10690953	0.026519926	0.557276587	0
0.019658854	0			
ENSG00000156110	813.344058	677.601284	923.0417049	
541.4676617	470.6378369	499.4386994	804.6623489	
503.848066	0.675385848	0.00034029	0.004469083	ADK
10	74151185	74709303	+ 3184	
protein_coding	adenosine kinase [Source:HGNC Symbol;Acc:HGNC:257]			
-	703 731	944 539	515 509	
12.0747175	10.12227835	13.7341375	8.184966809	
7.048436114	7.462610229			
ENSG00000125520	1405.708436	1894.688132	2340.849408	
1191.429771	1155.118885	1234.369123	1880.415325	
1193.63926	0.656203341	0.000341104	0.004475931	
SLC2A4RG	20 63739861	63743505	+ 2244	
protein_coding	SLC2A4 regulator [Source:HGNC			
Symbol;Acc:HGNC:15930]	Others	1215 2044	2394 1186	1264
1258	29.61066344	40.15984212	49.42011473	
25.55424492	24.54611808	26.17000613		
ENSG00000138061	5.784808379	20.3929251	19.55596832	0
0	0 15.24456727	0	6.426108756	
0.000341276	1	CYP1B1 2	38066973 38109902	
-	6014	protein_coding	cytochrome P450 family 1	
subfamily B member 1 [Source:HGNC Symbol;Acc:HGNC:2597]				
22	20 0	0 0	0.045467523	5
0.161284716	0.154052598	0 0	0	
ENSG00000119969	1554.956492	1181.862705	1492.120383	
1102.02231	799.6273927	640.7337342	1409.646527	
847.4611455	0.734012899	0.000347661	0.00455245	HELLS
10	94501434	94613905	+ 10148	
protein_coding	"helicase, lymphoid specific [Source:HGNC			
Symbol;Acc:HGNC:4861]"	-	1344 1275	1526 1097	875
653	7.242917241	5.539412213	6.965888697	
5.226697739	3.757389282	3.003853573		
ENSG00000136068	1472.812213	1200.401727	1848.039007	
1024.669786	870.9084632	985.1403815	1507.084316	
960.2395437	0.6503721	0.000347744	0.00455245	FLNB
3	58008400	58172251	+ 13952	
protein_coding	filamin B [Source:HGNC Symbol;Acc:HGNC:3755]			
				-

	1273	1295	1890	1020	953	1004	4.98984033	
	4.09229807		6.275203185		3.534800605		2.97656267	
	3.359257389							
ENSG00000139197	826.0706365			998.3263787		873.1739856		
1408.418667	1279.403828			1283.429899		899.1903336		
1323.750798	-0.557246205			0.00034801		0.00455245		PEX5
12	7188685	7218574	+	5488		protein_coding		
peroxisomal biogenesis factor 5	[Source:HGNC Symbol;Acc:HGNC:9719]							
-	714	1077		893	1402	1400	1308	
7.115064179	8.652379478			7.537716721		12.35193869		
11.11661412	11.12601592							
ENSG00000044524	122.6379376			137.1887688		139.8251735		
57.26095866	43.86527412			56.91050013		133.2172933		
52.67891097	1.340218463			0.000348127		0.00455245		EPHA3
3	89107524			89482134		+	6674	
protein_coding	EPH receptor A3 [Source:HGNC Symbol;Acc:HGNC:3387]							
-	106	148		143	57	48	58	
0.868589101	0.977708681			0.992549765		0.412942773		
0.313410565	0.405683951							
ENSG00000101161	5016.585826			6036.305829		5430.692403		
8422.383813	6727.836418			7927.240182		5494.528019		
7692.486804	-0.485268837			0.000349271		0.004562346		PRPF6
20	63981135			64033100		+	3044	
protein_coding	pre-mRNA processing factor 6 [Source:HGNC							
Symbol;Acc:HGNC:15860]	-			4336	6512	5554	8384	7362
8079	77.90033731			94.31998038		84.52081636		
133.170441	105.3925137			123.896488				
ENSG00000162298	1635.943809			1863.171793		1929.196275		
2761.585532	2368.724802			2551.160351		1809.437293		
2560.490228	-0.500438492			0.00034948		0.004562346		SYVN1
11	65121780			65134533		-	5496	
protein_coding	synoviolin 1 [Source:HGNC Symbol;Acc:HGNC:20738]							
-	1414	2010		1973	2749	2592	2600	
14.07010693	16.12438991			16.62963883		24.18406115		
20.55165832	22.08374175							
ENSG00000089723	63.63289216			37.07804563		55.73450972		
148.6775769	172.7195168			103.0276295		52.14848251		
141.4749077	-1.44429134			0.000350711		0.004574504		OTUB2
14	94026329			94048930		+	4252	
protein_coding	"OTU deubiquitinase, ubiquitin aldehyde binding 2							
[Source:HGNC Symbol;Acc:HGNC:20351]"	-					55	40	57
148	189	105		0.707398519		0.414763655		
0.620989212	1.682944043			1.936988963		1.152768443		
ENSG00000099834	30.08100357			33.37024107		76.26827646		
194.8881751	144.3898606			99.10276747		46.5731737		
146.1269344	-1.646381066			0.000351229		0.004577358		CDHR5
11	616565	626078	-	3873		protein_coding		
cadherin related family member 5	[Source:HGNC Symbol;Acc:HGNC:7521]							
-	26	36		78	194	158	101	
0.367130583	0.409816049			0.93293108		2.421895774		

1.777739768	1.217362481					
ENSG00000164941	1464.713481	1447.897682	1332.739241			
1053.802555	988.7963874	806.559157	1415.116802			
949.7193664	0.57524881	0.000354579	0.004617033	INTS8		
8	94813311	94881746	+ 7866			
protein_coding	integrator complex subunit 8 [Source:HGNC					
Symbol;Acc:HGNC:26048]	-	1266 1562	1363 1049	1082		
822	8.801860402	8.75509868	8.026835626			
6.447966354	5.994209483	4.878248406				
ENSG00000006634	1004.242735	880.6035838	1062.866878			
479.1838119	760.331418	546.5370443	982.5710656			
595.3507581	0.722035569	0.000354878	0.004617033	DBF4		
7	87876216	87909541	+ 4583			
protein_coding	DBF4 zinc finger [Source:HGNC					
Symbol;Acc:HGNC:17364]	-	868 950	1087 477	832 557		
10.35772988	9.139189996	10.98707635	5.032337249			
7.911012428	5.673504109					
ENSG00000173465	902.4301071	1127.172587	848.7290252			
1426.501075	1358.909638	1540.508366	959.4439065			
1441.973026	-0.587214551	0.000359708	0.004675896	SSSCA1		
11	65570430	65573942	+ 2008			
protein_coding	Sjogren syndrome/scleroderma autoantigen 1					
[Source:HGNC	Symbol;Acc:HGNC:11328]	-	780 1216	868		
1420	1487 1570	21.2434773	26.69954279			
20.02435207	34.1921061	32.27051214	36.49908521			
ENSG00000175352	1022.754121	1363.545128	640.4579626			
1519.92685	2443.661312	1565.038754	1008.919071			
1842.875639	-0.86913692	0.000360661	0.004684297	NRIP3		
11	8980576 9004049	- 4123	protein_coding			
nuclear receptor interacting protein 3 [Source:HGNC						
Symbol;Acc:HGNC:1167]	-	884 1471	655 1513	2674		
1595	11.72556134	15.73016564	7.359196868			
17.74299008	28.26224558	18.05898713				
ENSG00000175213	399.1517781	513.530932	489.8770065			
728.319211	758.5036983	727.0806999	467.5199055			
737.9678697	-0.657310171	0.000363714	0.004719948	ZNF408		
11	46700818	46705912	+ 3078			
protein_coding	zinc finger protein 408 [Source:HGNC					
Symbol;Acc:HGNC:20041]	zf-C2H2	345 554	501 725	830		
741	6.129784298	7.935514823	7.540003825			
11.38860703	11.75081732	11.2381708				
ENSG00000225663	1035.4807	1982.74849	1625.100968			
2526.514228	2258.147757	2897.529429	1547.776719			
2560.730471	-0.725549242	0.000364888	0.004727891	MCRIP1		
17	81822361	81833302	- 3726			
protein_coding	MAPK regulated corepressor interacting protein 1					
[Source:HGNC	Symbol;Acc:HGNC:28007]	-	895 2139	1662		
2515	2471 2953	13.13635564	25.31056804			
20.66286911	32.63595723	28.8993778	36.99701045			
ENSG00000105372	18262.64005	20751.65519	21790.2377			

24509.69946	29527.7265	29603.27222	20268.17765	
27880.23273	-0.45999872	0.000364958	0.004727891	RPS19
19	41859918	41872926	+ 3799	
protein_coding ribosomal protein S19 [Source:HGNC				
Symbol;Acc:HGNC:10402] - 15785 22387 22285 24398 32311				
30170	227.2322692	259.8128122	271.7351381	
310.5175493	370.6292608	370.7251525		
ENSG00000130487	0	6.488657986	5.866790497	66.30216265
	22.84649694	35.3237587	4.118482828	41.4908061
	-3.29986874	0.000365254	0.004727891	KLHDC7B 22
	50545891	50551023	+ 5133	protein_coding
kelch domain containing 7B [Source:HGNC Symbol;Acc:HGNC:25145]				
-	0	7	6	66 25 36 0
	0.060125781	0.054148003	0.621690009	0.212240051
	0.327398943			
ENSG00000173281	964.9060375	952.9057728	474.2322318	
1387.322525	1714.40113	1206.895089	797.3480141	
1436.206248	-0.849499013	0.000366546	0.0047406	
PPP1R3B 8	9136255 9151574	- 5776	protein_coding	
protein phosphatase 1 regulatory subunit 3B [Source:HGNC				
Symbol;Acc:HGNC:14942] - 834 1028 485 1381 1876				
	1230 7.896480711	7.846931981	3.889708087	
11.56026289	14.15351297	9.940860118		
ENSG00000163297	2835.713067	3272.137527	2733.924372	
3709.907374	4812.386114	4113.255458	2947.258322	
4211.849649	-0.515041188	0.000369648	0.004776681	ANTXR2
4	79901149	80125454	- 9864	
protein_coding ANTXR cell adhesion molecule 2 [Source:HGNC				
Symbol;Acc:HGNC:21732] - 2451 3530 2796 3693 5266				
	4192 13.58892058	15.77813253	13.1306601	
18.10203751	23.26410712	19.83874733		
ENSG00000196365	4485.540417	5629.374278	5562.69519	
9139.652664	6003.145535	8412.941864	5225.869962	
7851.913354	-0.587174342	0.000370931	0.004789205	LONP1
19	5691834 5720572	- 5085	protein_coding	"lon
peptidase 1, mitochondrial [Source:HGNC Symbol;Acc:HGNC:9479]" -				
	3877 6073 5689 9098 6569 8574 41.69649564			
	52.65580806 51.82596916 86.5079841 56.29462135			
	78.71156687			
ENSG00000242372	2880.834573	4213.919886	3630.565519	
5153.486279	4688.101171	6220.906393	3575.106659	
5354.164615	-0.582335614	0.000372829	0.00480965	EIF6
20	35278911	35284985	- 1631	
protein_coding eukaryotic translation initiation factor 6				
[Source:HGNC Symbol;Acc:HGNC:6159] - 2490 4546 3713				
	5130 5130 6340 83.49108382		122.8879865	
105.456522	152.0773795	137.0635581	181.4601781	
ENSG00000092201	6939.456131	6850.168931	6741.920079	
5413.672038	4927.532459	5111.151641	6843.84838	
5150.785379	0.410037247	0.0003775	0.004865802	

SUPT16H 14	21351472	21384266	-	7151	
protein_coding	"SPT16 homolog, facilitates chromatin remodeling				
subunit	[Source:HGNC Symbol;Acc:HGNC:11465]"				
	6895	5389	5392	5209	45.87059739
	44.66526842	36.43700079	32.85804373	34.00428248	
ENSG00000128951	1890.475378	2260.833833	2235.247179		
940.2852158	1464.003524	1590.550357	2128.85213		
1331.613032	0.67691551	0.00037785	0.004866212		DUT
15	48331011	48343373	+	3674	
protein_coding	deoxyuridine triphosphatase [Source:HGNC				
Symbol;Acc:HGNC:3078]	-	1634	2439	2286	936
1621	24.32246645	29.26891385	28.82302311		1602
12.31793515	19.00124062	20.59633271			
ENSG00000148948	28.92404189	77.86389583	62.57909863		
15.06867333	6.397019142	9.812155195	56.45567879		
10.42594922	2.444388557	0.000379379	0.004881793		LRRC4C
11	40114203	41459773	-	5356	
protein_coding	leucine rich repeat containing 4C [Source:HGNC				
Symbol;Acc:HGNC:29317]	-	25	84	64	15
10	0.255266694	0.691468938	0.553530889		7
0.135410365	0.05695293	0.087157641			
ENSG00000279095	174.701213	227.1030295	145.691964		
346.5794866	321.6786769	366.9746043	182.4987355		
345.0775892	-0.917820544	0.000380112	0.004887108		
AC243964.3	19	44664131	44666158	+	2028
TEC	TEC	-	151	245	149
374	4.071961934	5.32637932	3.403460962	345	352
8.22531163	7.563682854	8.608940126			
ENSG00000144749	1640.571656	1332.955741	1636.834549		
1013.619426	1072.871496	1072.468563	1536.787315		
1052.986495	0.545023077	0.000382649	0.004915599		LRIG1
3	66378797	66501263	-	7032	
protein_coding	leucine rich repeats and immunoglobulin like domains 1				
[Source:HGNC Symbol;Acc:HGNC:17360]	-		1418	1438	1674
1009	1174	1093	11.02788127	9.016001638	
11.0275503	6.937668123	7.275248509	7.255833957		
ENSG00000123737	1733.12859	1476.633167	1385.540356		
1025.674365	1089.320974	1036.163589	1531.767371		
1050.386309	0.543721071	0.000383917	0.004927746		EXOSC9
4	121801317	121817021	+	4711	
protein_coding	exosome component 9 [Source:HGNC Symbol;Acc:HGNC:9137]				
-	1498	1593	1417	1021	1192
17.38975334	14.908592	13.93346727	10.47885557		
11.02609548	10.46397877				
ENSG00000109917	4188.201266	4645.879118	3800.702444		
5468.923841	5940.089203	5919.673229	4211.594276		
5776.228758	-0.455723795	0.000385989	0.004950174		ZPR1
11	116773799	116788050	-	7069	
protein_coding	ZPR1 zinc finger [Source:HGNC Symbol;Acc:HGNC:13051]				
-	3620	5012	3887	5444	6500
			6033		

28.00562709	31.25986072	25.47176356	37.23585679	
40.06950457	39.84018803			
ENSG00000055044	3164.290183	3475.139827	3171.000264	
2346.694727	2232.559681	2550.179135	3270.143425	
2376.477847	0.460701007	0.000386657	0.004954588	NOP58
2	202265716	202303666	+ 3299	
protein_coding	NOP58 ribonucleoprotein [Source:HGNC			
Symbol;Acc:HGNC:29926]	-	2735 3749	3243 2336	2443
2599	45.33876937	50.10338672	45.5372803	
34.23668755	32.27005824	36.77646651		
ENSG00000176485	192.0556382	208.5640067	340.2738488	
132.6043253	102.3523063	100.083983	246.9644979	
111.6802049	1.146329831	0.000388228	0.004970549	
PLA2G16 11	63573195	63616883	- 3116	
protein_coding	phospholipase A2 group XVI [Source:HGNC			
Symbol;Acc:HGNC:17825]	-	166 225	348 132	112
102	2.913435124	3.183603893	5.173497586	
2.04822517	1.566315232	1.528089384		
ENSG00000072071	461.6277086	639.5962872	600.3682275	
1129.145922	864.511444	802.6342949	567.1974078	
932.0972202	-0.715321694	0.00038879	0.004973584	ADGRL1
19	14147743	14206187	- 8487	
protein_coding	adhesion G protein-coupled receptor L1 [Source:HGNC			
Symbol;Acc:HGNC:20973]	-	399 690	614 1124	946
818	2.571067072	3.584502161	3.351325606	
6.40343972	4.857306761	4.499301924		
ENSG00000130508	1793.290597	1185.570509	2890.372118	
864.9418492	456.0160788	579.898372	1956.411075	
633.6187667	1.626649446	0.000392614	0.005018307	PXDN
2	1631887 1744852	- 11257	protein_coding	
peroxidasin [Source:HGNC	Symbol;Acc:HGNC:14966]			
2956	861 499	591 7.530152036	5.009355303	1279
12.16421869	3.698125981	1.931685755	2.450816811	
ENSG00000123130	680.2934653	677.601284	688.370085	
407.8587581	477.034856	428.791182	682.0882781	
437.8949321	0.639025044	0.000393638	0.005027182	ACOT9
X	23702253	23766475	- 5046	
protein_coding	acyl-CoA thioesterase 9 [Source:HGNC			
Symbol;Acc:HGNC:17152]	-	588 731	704 406	522
437	6.372719346	6.387105485	6.462906438	
3.890272327	4.507978692	4.042781099		
ENSG00000065923	332.0480009	377.2691143	280.6281454	
645.9437968	471.5516967	574.9922944	329.9817536	
564.162596	-0.773099	0.000400709	0.005113217	SLC9A7
X	46599252	46759172	- 10033	
protein_coding	solute carrier family 9 member A7 [Source:HGNC			
Symbol;Acc:HGNC:17123]	-	287 407	287 643	516
586	1.564392759	1.78853546	1.325114909	
3.098713164	2.241183865	2.726546066		
ENSG00000125676	3732.358366	3236.913384	3941.505416	

2913.276844	2113.757896	2463.832169	3636.925722	
2496.955637	0.542629673	0.000406907	0.005187977	THO2
X	123600561	123733056	- 10277	
protein_coding	THO complex 2 [Source:HGNC Symbol;Acc:HGNC:19073]			
-	3226 3492	4031 2900	2313 2511	
17.16693328	14.98103561	18.16974772	13.64372188	
9.807715828	11.40581681			
ENSG00000152495	585.4226079	434.7400851	588.6346465	
389.7763501	222.0679502	249.2287419	536.2657798	
287.0243474	0.902099567	0.000410489	0.00522929	CAMK4
5	111223653	111494886	+ 13910	
protein_coding	calcium/calmodulin dependent protein kinase IV			
[Source:HGNC Symbol;Acc:HGNC:1464]		-	506 469	602
388	243 254	1.989381613	1.486550512	
2.004803524	1.348670357	0.761268292	0.852418021	
ENSG00000069248	881.6047969	785.1276163	760.7271678	
466.124295	571.1624234	528.875165	809.1531937	
522.0539611	0.631407928	0.000414537	0.005276461	NUP133
1	229440260	229508341	- 6080	
protein_coding	nucleoporin 133 [Source:HGNC Symbol;Acc:HGNC:18016]			
-	762 847	778 464	625 539	
6.854031638	6.142056244	5.927594324	3.689908677	
4.479556677	4.138388149			
ENSG00000021826	996.1440028	848.1602939	1035.488523	
701.195599	604.9752388	564.1989237	959.9309398	
623.4565872	0.622521533	0.000415316	0.005281972	CPS1
2	210477682	210679107	+ 10775	
protein_coding	carbamoyl-phosphate synthase 1 [Source:HGNC			
Symbol;Acc:HGNC:2323]	-	861 915	1059 698	662
575	4.369991431	3.744016665	4.552826884	
3.132126978	2.677313996	2.491131204		
ENSG00000111911	841.1111382	750.8304241	496.7215954	
1105.036044	1391.808593	1012.614416	696.2210526	
1169.819685	-0.749546173	0.000417129	0.00530062	HINT3
6	125956781	125980244	+ 3314	
protein_coding	histidine triad nucleotide binding protein 3			
[Source:HGNC Symbol;Acc:HGNC:18468]		-	727 810	508
1100	1523 1032	11.99710941	10.77622059	
7.100904371	16.04875686	20.02654344	14.53694774	
ENSG00000164683	223.2936034	246.5690035	263.0277739	
74.33878843	148.95916	111.8585692	244.2967936	
111.7188392	1.127479249	0.000418202	0.005308119	HEY1
8	79764010	79767863	- 3232	
protein_coding	hes related family bHLH transcription factor with YRPW			
motif 1 [Source:HGNC Symbol;Acc:HGNC:4880]			bHLH 193 266	
269	74 163	114 3.265732961	3.628642998	
3.855523759	1.107035592	2.197732599	1.646567485	
ENSG00000165996	279.9847255	413.4202088	416.5421253	
189.865284	216.5847909	191.3370263	369.9823532	
199.2623671	0.893848073	0.000418413	0.005308119	HACD1

10	17589032	17617377	-	3857	
protein_coding	3-hydroxyacyl-CoA dehydratase 1 [Source:HGNC				
Symbol;Acc:HGNC:9639]	-	242	446	426	189
195	3.431313823	5.098227108	5.116375564		237
2.369263598	2.677671554	2.360103279			
ENSG00000112531	4685.694787	3755.079072	4299.379636		
3197.572481	3068.741468	2921.078601	4246.717831		
3062.464184	0.471450864	0.000420582	0.005331208		QKI
6	163414000	163578596	+	17368	
protein_coding	"QKI, KH domain containing RNA binding [Source:HGNC				
Symbol;Acc:HGNC:21100]"	-	4050	4051	4397	3183
2977	12.75263488	10.28362877	11.72759909		3358
8.861108303	8.425379644	8.001567257			
ENSG00000162391	9.255693406	7.415609127	6.844588913		
31.14192488	66.71177105	40.2298363	7.838630482		
46.02784408	-2.559921949	0.000421289	0.005335743		
FAM151A 1	54609182	54623556	-	2005	
protein_coding	family with sequence similarity 151 member A				
[Source:HGNC	Symbol;Acc:HGNC:25032]	-	8	8	7
31	73	41	0.218207826	0.175917712	
0.161728336	0.747564265	1.586598652	0.954587		
ENSG00000052802	2097.571518	1667.585102	1767.859536		
1061.839181	1456.692645	1135.266356	1844.338719		
1217.932727	0.597989576	0.000421803	0.005337828		MSM01
4	165327623	165343160	+	2892	
protein_coding	methylsterol monooxygenase 1 [Source:HGNC				
Symbol;Acc:HGNC:10545]	-	1813	1799	1808	1057
1157	34.28421644	27.4262754	28.96026912		1594
17.67168311	24.0186518	18.67588135			
ENSG00000057704	19.66834849	64.88657986	29.33395248		
132.6043253	105.0938859	134.4265262	37.96296028		
124.0415791	-1.699215091	0.000423415	0.005353805		TMCC3
12	94567124	94650562	-	6515	
protein_coding	transmembrane and coiled-coil domain family 3				
[Source:HGNC	Symbol;Acc:HGNC:29199]	-	17	70	30
132	115	137	0.142701722	0.473715481	
0.213309054	0.979626958	0.769204857	0.981639856		
ENSG00000006652	1830.313371	1683.343272	1573.277652		
1137.182547	1186.190121	1253.012218	1695.644765		
1192.128296	0.507997262	0.000426582	0.005389384		IFRD1
7	112422968	112481017	+	7489	
protein_coding	interferon related developmental regulator 1				
[Source:HGNC	Symbol;Acc:HGNC:5456]	-	1582	1816	1609
1132	1298	1277	11.55253682	10.69118812	
9.952556903	7.308425307	7.552825652	7.960000637		
ENSG00000204592	3583.11031	4170.353183	3938.57202		
4687.361984	6036.04449	5700.862168	3897.345171		
5474.756214	-0.490209406	0.00042825	0.005405994		HLA-E
6	30489467	30494205	+	2975	
protein_coding	"major histocompatibility complex, class I, E				

[Source:HGNC Symbol;Acc:HGNC:4962]"	-	3097	4499	4028
4666	6605 5810	56.93101779	66.67499335	
62.71984084	75.83312984	96.74854661	91.1664824	
ENSG00000171813	168.9164047	215.0526647	217.0712484	
324.4787657	484.345735	327.7259835	200.3467726	
378.8501614	-0.918209299	0.000431045	0.005436789	PWWP2B
10	132397168	132417863	+ 2651	
protein_coding	PWWP domain containing 2B [Source:HGNC			
Symbol;Acc:HGNC:25150]	-	146 232	222 323	530
334	3.011881222	3.858444122	3.879231543	
5.891067665	8.712137872	5.881427866		
ENSG00000106211	5758.19826	7933.774815	6913.034802	
10700.76722	8879.976429	9734.639169	6868.335959	
9771.794273	-0.508464467	0.000432484	0.00545044	HSPB1
7	76302544	76304295	+ 1634	
protein_coding	heat shock protein family B (small) member 1			
[Source:HGNC Symbol;Acc:HGNC:5246]	-	4977 8559		7070
10652	9717 9921	166.5751839	230.9430686	
200.4332725	315.1957276	259.1425621	283.4323602	
ENSG00000072864	738.1415491	735.9992058	1232.026004	
518.3623626	577.5594425	472.9458804	902.0555864	
522.9558952	0.786687986	0.000436011	0.005490366	NDE1
16	15643267	15726353	+ 5512	
protein_coding	nudE neurodevelopment protein 1 [Source:HGNC			
Symbol;Acc:HGNC:17619]	-	638 794	1260 516	632
482	6.330036038	6.351045901	10.58921563	
4.526283053	4.99650662	4.082102121		
ENSG00000138092	537.9871792	466.2564238	736.2822074	
311.4192488	290.607441	384.6364836	580.1752701	
328.8877245	0.819200328	0.000438759	0.005519219	CENPO
2	24793136	24822376	+ 5518	
protein_coding	centromere protein 0 [Source:HGNC			
Symbol;Acc:HGNC:28152]	-	465 503	753 310	318
392	4.608567677	4.019020736	6.321435861	
2.716321769	2.51133137	3.316274005		
ENSG00000145632	225.6075268	780.4928606	693.2590771	
154.7050462	84.07510872	165.8254228	566.4531548	
134.8685259	2.071242572	0.000439231	0.005519219	PLK2
5	58453982	58460260	- 4768	
protein_coding	polo like kinase 2 [Source:HGNC			
Symbol;Acc:HGNC:19699]	-	195 842	709 154	92 169
2.236624498	7.785917592	6.888306201	1.561657138	
0.840833833	1.654613234			
ENSG00000186577	842.2680999	1517.419018	875.1295825	
1674.631896	1952.004698	1770.112797	1078.272233	
1798.916464	-0.737633516	0.000439386	0.005519219	SMIM29
6	34246380	34249470	- 2229	
protein_coding	small integral membrane protein 29 [Source:HGNC			
Symbol;Acc:HGNC:1340]	-	728 1637	895 1667	2136
1804	17.86142168	32.37968123	18.60010615	

36.15986062	41.75896995	37.78091751				
ENSG00000125726	131.893631	126.9923063	250.3163945			
15.06867333	79.50580934	53.96685357	169.7341106			
49.51377875	1.774903054	0.00044278	0.00555729	CD70		
19	6583183	6604103	-	1532	protein_coding	CD70
molecule [Source:HGNC Symbol;Acc:HGNC:11937]			-	114		137
256	15	87	55	4.06949762	3.942718402	
7.74076095	0.473405948	2.474680209	1.675907174			
ENSG00000115526	414.1922799	448.6443522	607.2128164			
837.8182372	815.1630107	734.9304241	490.0164828			
795.9705573	-0.699108465	0.000444089	0.005569151	CHST10		
2	100391860	100417656	-	4487		
protein_coding	carbohydrate	sulfotransferase 10	[Source:HGNC			
Symbol;Acc:HGNC:19650]	-	358	484	621	834	892
749	4.363366268	4.755796359	6.411180239			
8.986926661	8.662981413	7.792409803				
ENSG00000035403	6529.891698	5947.31852	6172.841401			
4600.968257	4259.500889	4961.025666	6216.683873			
4607.164937	0.432234427	0.000446044	0.005588502	VCL		
10	73995193	74121363	+	9992		
protein_coding	vinculin [Source:HGNC Symbol;Acc:HGNC:12665]			-		
5644	6416	6313	4580	4661	5056	30.89080973
28.31039233	29.26751299	22.16227141	20.32756111			
23.62113032						
ENSG00000189241	1035.4807	1128.099538	1042.333112			
1386.317946	1580.977588	1638.629918	1068.637783			
1535.308484	-0.522606573	0.000446364	0.005588502	TSPYL1		
6	116276578	116279903	-	3326		
protein_coding	TSPY like 1 [Source:HGNC Symbol;Acc:HGNC:12382]			-		
895	1217	1066	1380	1730	1670	14.71619396
16.13252294	14.8469558	20.06125314	22.66639517			
23.43906385						
ENSG00000259518	118.0100909	63.03267758	80.17947013			
13.05951689	11.88017841	38.26740526	87.07407954			
21.06903352	2.04704933	0.000449054	0.005617585			
LINC01583	15	82088594	82097694	+		2568
lincRNA	long intergenic non-protein coding RNA	1583				
[Source:HGNC Symbol;Acc:HGNC:51425]		-	102	68		82
13	13	39	2.172200279	1.167475704		
1.479180895	0.244765131	0.220600723	0.708950027			
ENSG00000082512	441.9593601	312.3825345	396.0083585			
203.9293791	220.2402305	218.8110608	383.4500844			
214.3268901	0.837919609	0.000450229	0.005627674	TRAF5		
1	211326615	211374946	+	9022		
protein_coding	TNF receptor associated factor 5 [Source:HGNC					
Symbol;Acc:HGNC:12035]	-	382	337	405	203	241
223	2.31555581	1.646876514	2.079479562			
1.087913664	1.164053169	1.153846604				
ENSG00000146556	123.7948993	206.7101044	137.8695767			
375.712255	233.9481286	365.0121732	156.1248601			

324.8908523	-1.054273714	0.000453456	0.005659441	WASH2P
2	113588550	113599043	+ 2958	
transcribed_unprocessed_pseudogene "WAS protein family homolog 2, pseudogene [Source:HGNC Symbol;Acc:HGNC:33145]" - 107 223				
141	374	256	372	1.978246112 3.323844144
	2.208123698	6.113285085	3.771380866	5.870712411
ENSG00000111859	299.653074	237.2994921	412.6309316	
56.25638043	165.4086378	161.9005607	316.5278326	
127.855193	1.306562075	0.00045351	0.005659441	NEDD9
6	11183298	11382348	- 10359	
protein_coding "neural precursor cell expressed, developmentally down-regulated 9 [Source:HGNC Symbol;Acc:HGNC:7733]" - 259				
256	422	56	181 165	1.367340393
1.089572392	1.887109382	0.261379432	0.761411338	
0.743553371				
ENSG00000164733	56603.19302	61977.80718	44486.89454	
68955.25374	86208.05768	76966.54535	54355.96491	
77376.61892	-0.509463816	0.000458142	0.00571258	CTSB
8	11842524	11869448	- 7428	
protein_coding cathepsin B [Source:HGNC Symbol;Acc:HGNC:2527] -				
48924	66862	45497	68641 94334	78440 360.2008847
	396.8637449	283.7352681	446.799752	553.4201308
	492.9600508			
ENSG00000147155	576.1669145	609.9338507	620.9019943	
313.4284053	356.4053522	434.6784751	602.3342531	
368.1707442	0.710362238	0.00046176	0.005753	EBP
X	48521158	48528716	+ 2409	
protein_coding "EBP, cholesterol delta-isomerase [Source:HGNC Symbol;Acc:HGNC:3133]" - 498 658 635 312 390				
443	11.30543443	12.04267737	12.21066682	
6.262085752	7.054827592	8.584459619		
ENSG00000129009	16.19746346	2.780853423	27.37835565	0
0	0	15.45222418	0	6.441584599
0.000465433	1	ISLR	15	74173671 74176872
+	2671	protein_coding	immunoglobulin superfamily	
containing leucine rich repeat [Source:HGNC Symbol;Acc:HGNC:6133]				
-	14	3	28	0 0 0
0.286647963	0.049520079	0.485608857	0	0 0
ENSG00000158164	130.7366694	71.37523785	66.4902923	
29.13276844	30.15737595	12.75580175	89.5340665	
24.01531538	1.894857783	0.000470209	0.005853484	
TMSB15A X	102513676	102516784	- 685	
protein_coding thymosin beta 15a [Source:HGNC Symbol;Acc:HGNC:30744]				
-	113	77	68 29	33 13
9.021579587	4.956032112	4.598548773	2.046956638	
2.099336062	0.885928793			
ENSG00000158270	164.288558	57.47097073	170.1369244	
40.18312888	36.5543951	47.09834493	130.632151	
41.27862297	1.660752192	0.000470927	0.005857652	
COLEC12 18	316740	500722	- 7340	protein_coding

collectin subfamily member 12 [Source:HGNC Symbol;Acc:HGNC:16016]						
-	142	62	174	40	40	48
1.058003239	0.372417077		1.098134774		0.263490613	
0.237477533	0.305274981					
ENSG00000145730	2511.763798		1863.171793		2246.98076	
1163.301581	1436.587727		1717.127159		2207.30545	
1439.005489	0.616831496		0.000475335		0.005907681	PAM
5	102753981		103031105		+ 8846	
protein_coding	peptidylglycine alpha-amidating		monooxygenase			
[Source:HGNC Symbol;Acc:HGNC:8596]	-		2171		2010	2298
1158	1572	1750	13.42170228		10.01804736	
12.03387636	6.329404345		7.743979674		9.23500531	
ENSG00000197702	3739.300136		2686.304406		3587.542389	
2339.662679	2369.638662		2217.547074		3337.715644	
2308.949472	0.531333726		0.00048298		0.005997818	PARVA
11	12377185		12535356		+ 12849	
protein_coding	parvin alpha		[Source:HGNC Symbol;Acc:HGNC:14652]			
-	3232	2898	3669	2329	2593	2260
13.75614471	9.944043375		13.22759345		8.763979962	
8.794107808	8.210793803					
ENSG00000182492	9080.992193		5278.059796		16048.6054	
3186.52212	2238.04284		3759.036655		10135.8858	
3061.200538	1.727316074		0.000483836		0.006003572	BGN
X	153494939		153509554		+ 2453	
protein_coding	biglycan		[Source:HGNC Symbol;Acc:HGNC:1044]			-
7849	5694	16413	3172	2449	3831	174.9892999
102.3419936		309.9508824		62.52257367		43.50606803
72.90555822						
ENSG00000165805	16.19746346		24.10072966		9.777984162	
37.16939421	119.7156439		69.66630188		16.69205909	
75.51711335	-2.17623792		0.000486738		0.006034689	
C12orf50	12	87980035		88034037		- 5609
protein_coding	chromosome 12 open reading frame 50					
[Source:HGNC Symbol;Acc:HGNC:26665]	-		14		26	10
37	131	71	0.136501464		0.204372222	
0.082588013	0.31894625		1.017757833		0.590906741	
ENSG00000179041	1682.222276		2198.728106		1992.753172	
3114.192488	2602.672931		2727.779144		1957.901185	
2814.881521	-0.523213218		0.000488189		0.006047764	RRS1
8	66429028		66430733		+ 1706	
protein_coding	ribosome biogenesis regulator homolog		[Source:HGNC			
Symbol;Acc:HGNC:17083]	-		1454	2372	2038	3100 2848
2780	46.6101062		61.3012903		55.33852875	
87.85852006	72.74774836		76.06971776			
ENSG00000147274	8754.729		7362.772912		8198.83972	
5947.103074	6050.666248		6152.221307		8105.44721	
6049.996877	0.421847236		0.000490318		0.006069222	RBMX
X	136848004		136880764		- 5882	
protein_coding	RNA binding motif protein X-linked		[Source:HGNC			
Symbol;Acc:HGNC:9910]	-		7567	7943	8385	5920 6621

6270	70.35475039	59.53789836	66.03596103	
48.66289064	49.05205036	49.7609378		
ENSG00000198858	1086.387013	1719.494366	1647.590331	
2342.676414	2062.581743	2495.231066	1484.49057	
2300.163074	-0.630939774	0.000493235	0.006100385	R3HDM4
19	896503 913245	- 2957	protein_coding	R3H
domain containing 4 [Source:HGNC	Symbol;Acc:HGNC:28270]	-		939
1855	1685 2332	2257 2543	17.36636723	
27.65836779	26.39678508	38.13102134	33.26127035	
40.14588826				
ENSG00000123689	276.5138405	488.5032512	613.0796069	
204.9339573	223.89567	262.9657592	459.3655662	
230.5984622	0.995578003	0.000498925	0.006165777	G0S2
1	209675420	209676388	+ 866	
protein_coding	G0/G1 switch 2 [Source:HGNC	Symbol;Acc:HGNC:30229]		
-	239 527	627 204	245 268	
15.09297045	26.8303712	33.53915407	11.38973165	
12.32840208	14.44650984			
ENSG00000138600	2059.391783	1641.63047	1850.972402	
1215.539649	1310.475064	1348.190124	1850.664885	
1291.401612	0.518627547	0.00050061	0.006181597	SPPL2A
15	50702266	50765808	- 8144	
protein_coding	signal peptide peptidase like 2A [Source:HGNC	Symbol;Acc:HGNC:30227]	-	1434
1374	11.95300084	9.587707014	10.76751052	
7.183710494	7.673084556	7.875805885		
ENSG00000102794	18.51138681	39.85889906	8.800185745	
66.30216265	206.5323323	48.07956045	22.3901572	
106.9713518	-2.252677956	0.0005011	0.006182663	ACOD1
13	76948497	76958642	+ 2177	
protein_coding	aconitate decarboxylase 1 [Source:HGNC	Symbol;Acc:HGNC:33904]	-	226
49	0.401935408	0.87085126	0.19150783	
1.465840521	4.523854287	1.050711987		
ENSG00000136213	631.7010749	813.8631017	865.3515983	
1113.07267	1168.826783	1222.594537	770.3052583	
1168.164663	-0.599757394	0.00050253	0.006195302	CHST12
7	2403560 2448483	+ 16143	protein_coding	
carbohydrate sulfotransferase 12 [Source:HGNC	Symbol;Acc:HGNC:17423]			
-	546 878	885 1108	1279 1246	
1.849707718	2.397972659	2.539577553	3.318613917	
3.452589103	3.603129168			
ENSG00000108846	134.2075544	146.4582803	286.4949359	
20.09156444	101.4384464	49.06077597	189.0535902	
56.8635956	1.730696686	0.000503427	0.006201359	ABCC3
17	50634777	50692252	+ 9614	
protein_coding	ATP binding cassette subfamily C member 3 [Source:HGNC	Symbol;Acc:HGNC:54]	-	111
50	0.65985511	0.724580976	1.411776532	
0.100583581	0.503126808	0.24277945		

ENSG00000110104	1749.326054	2422.123331	2235.247179	
3421.593424	2778.134027	3166.382481	2135.565521	
3122.036644	-0.547294413	0.000508044	0.006253191	CCDC86
11	60842071	60851081	+ 3384	
protein_coding	coiled-coil domain containing 86 [Source:HGNC			
Symbol;Acc:HGNC:28359]	-	1512 2613	2286 3406	3040
3227	24.43521415	34.0441906	31.29308123	
48.66486307	39.14730117	44.51584759		
ENSG00000255112	944.0807274	824.0595642	746.0601915	
1615.361781	1322.355243	1037.144804	838.0668277	
1324.953943	-0.661241967	0.000511683	0.00629292	CHMP1B
18	11851396	11854449	+ 3054	
protein_coding	charged multivesicular body protein 1B [Source:HGNC			
Symbol;Acc:HGNC:24287]	-	816 889	763 1608	1447
1057	14.61220777	12.83413745	11.57331999	
25.45764512	20.64705412	16.15667505		
ENSG00000111275	1.156961676	12.97731597	35.20074298	0
0	0	16.44500688	0	6.535346575
0.000513251	1	ALDH2	12	111766887
+	9720	protein_coding aldehyde dehydrogenase 2		111817529
family member	[Source:HGNC Symbol;Acc:HGNC:404] -			1 14
36	0	0	0	0.005626372
0.171568949	0	0	0	0.063503217
ENSG00000078098	747.3972425	593.2487301	656.1027372	
485.2112812	319.8509571	388.5613457	665.5829033	
397.874528	0.742357855	0.000513577	0.006311138	FAP
2	162170684	162245151	- 7003	
protein_coding	fibroblast activation protein alpha [Source:HGNC			
Symbol;Acc:HGNC:3590]	-	646 640	671 483	350
396	5.044790138	4.029301872	4.438547272	
3.334757215	2.177922972	2.639715335		
ENSG00000187994	19.66834849	45.4206059	21.51156516	
115.5264955	73.10879019	104.9900606	28.86683985	
97.87511544	-1.753683009	0.000517433	0.006349054	RINL
19	38867834	38878279	- 4201	
protein_coding	Ras and Rab interactor like [Source:HGNC			
Symbol;Acc:HGNC:24795]	-	17 49	22 115	80
107	0.221304861	0.514253619	0.242589755	
1.323568356	0.829842939	1.188987071		
ENSG00000177119	2724.644746	2158.869207	2295.870681	
1688.695991	1777.457462	1592.512788	2393.128211	
1686.22208	0.504640991	0.000517493	0.006349054	AN06
12	45215987	45440404	+ 8235	
protein_coding	anoctamin 6 [Source:HGNC Symbol;Acc:HGNC:25240] -			
2355	2329 2348	1681 1945	1623	15.63946962
12.46923595	13.20799649	9.869731234	10.29235127	
9.200278037				
ENSG00000167716	1249.51861	1494.245239	1668.124098	
2342.676414	1846.910812	2359.823324	1470.629316	
2183.13685	-0.569367713	0.000519917	0.006373678	WDR81

17	1716523	1738599	+	7913	protein_coding	WD
repeat domain 81	[Source:HGNC Symbol;Acc:HGNC:26600]				-	1080
1612	1706	2332	2021	2405	7.464097478	
8.981685207	9.987121121		14.24913814		11.12970737	
14.18795985						
ENSG00000118557	42.807582		44.49365476		42.04533189	
2.009156444	11.88017841		4.906077597		43.11552289	
6.265137483	2.77177966		0.000521526		0.006386107	PMFBP1
16	72112157		72176878		- 5691	
protein_coding	polyamine modulated factor 1 binding protein 1					
[Source:HGNC Symbol;Acc:HGNC:17728]			-	37	48	43
2	13	5	0.355555869		0.371866118	
0.35001151	0.016991927		0.099543605		0.041013559	
ENSG00000130309	6105.286763		6574.864442		7924.078365	
4636.128495	4826.094013		5329.962702		6868.076523	
4930.728403	0.478196121		0.000522229		0.006386107	
COLGALT1	19	17555594		17583162	+	4900
protein_coding	collagen beta(1-0)galactosyltransferase 1					
[Source:HGNC Symbol;Acc:HGNC:26182]			-	5277	7093	8104
4615	5281	5432	58.89599007		63.82162206	
76.6135891	45.53830293		46.96547134		51.74992409	
ENSG00000177613	1228.6933		1327.394034		1189.002874	
1594.265638	1806.700978		1939.863082		1248.363402	
1780.276566	-0.511976005		0.000522386		0.006386107	CSTF2T
10	51695487		51699591		- 4105	
protein_coding	cleavage stimulation factor subunit 2 tau variant					
[Source:HGNC Symbol;Acc:HGNC:17086]			-	1062	1432	1216
1587	1977	1977	14.1483589		15.38026486	
13.72217234	18.69239638		20.98708423		22.48223814	
ENSG00000153044	1219.437606		1222.648555		1067.75587	
757.4519794	898.3242595		613.2596997		1169.947344	
756.3453129	0.628898351		0.000522602		0.006386107	CENPH
5	69189548		69210357		+ 2244	
protein_coding	centromere protein H [Source:HGNC					
Symbol;Acc:HGNC:17268]			-	1054	1319	983
625	25.6869459		25.91527973		22.54250847	
16.24612198	19.08926746		13.0017916			
ENSG00000131153	2951.409235		2308.108341		2642.01132	
1788.149235	1979.420494		1822.11722		2633.842965	
1863.228983	0.498932826		0.000523514		0.006392137	GINS2
16	85676198		85690073		- 3264	
protein_coding	GINS complex subunit 2 [Source:HGNC					
Symbol;Acc:HGNC:24575]			-	2551	2490	2166
1857	42.74201784		33.63435897		38.34755247	
26.36762835	28.91790988		26.5587597			
ENSG00000249471	336.6758476		351.3144824		333.4292599	
552.5180221	510.8476715		560.2740616		340.4731966	
541.2132517	-0.668324051		0.000524779		0.006402471	
ZNF324B 19	58451604		58457833		+ 4042	
protein_coding	zinc finger protein 324B [Source:HGNC					

Symbol;Acc:HGNC:33107]	zf-C2H2	291	379	341	550	559
571	3.937235503	4.134060793	3.908053727			
6.579116804	6.026623996	6.594560166				
ENSG00000033327	201.3113316	221.5413227	228.8048294			
406.8541799	318.0232373	425.8475354	217.2191612			
383.5749842	-0.819192258	0.000525865	0.006410608			GAB2
11	78215297	78418348	-	6771		
protein_coding	GRB2 associated binding protein 2 [Source:HGNC					
Symbol;Acc:HGNC:14458]	-	174	239	234	405	348
434	1.405371517	1.556248856	1.600904773			
2.89203421	2.239675132	2.992147176				
ENSG00000163754	1298.111	1157.761975	1143.046348			
856.9052234	829.7847687	803.6155104	1199.639775			
830.1018342	0.530874032	0.000528157	0.00643341			GYG1
3	148991341	149027668	+	3511		
protein_coding	glycogenin 1 [Source:HGNC					
Symbol;Acc:HGNC:4699]	-	1122	1249	1169	853	908
1122	1249	1169	853	908	819	17.4765917
15.68431539	15.42361363	11.74679577	11.26973274			
10.88927857						
ENSG00000140262	3625.917892	2504.621983	2854.193577			
2201.030884	2039.735246	1864.309487	2994.91115			
2035.025206	0.557090327	0.000531932	0.006474236			TCF12
15	56918623	57299281	+	9446		
protein_coding	transcription factor 12 [Source:HGNC					
Symbol;Acc:HGNC:11623]	bHLH	3134	2702	2919	2191	2232
1900	18.14453169	12.61163408	14.31490959			
11.21490639	10.29686092	9.38969954				
ENSG00000044459	747.3972425	623.8381178	689.3478834			
429.959479	479.7764356	406.2232251	686.8610812			
438.6530466	0.6460668	0.000533787	0.006491648			CNTLN
9	17134982	17503923	+	11064		
protein_coding	centlein [Source:HGNC					
Symbol;Acc:HGNC:23432]	-	646	673	705	428	525
646	673	705	428	525	414	3.193118703
2.681864645	2.95174887	1.870392784	2.067786683			
1.746763908						
ENSG00000118960	416.5062033	743.414815	590.5902434			
1098.003997	865.4253039	980.2343039	583.5037539			
981.2212015	-0.748105473	0.000536222	0.006516075			HS1BP3
2	20560448	20651089	-	9059		
protein_coding	HCLS1 binding protein 3 [Source:HGNC					
Symbol;Acc:HGNC:24979]	-	999	2.173286358	3.903265263	604	1093
999	2.173286358	3.903265263	3.088581991			947
5.833660067	4.555418877	5.147913779				
ENSG00000000460	873.5060652	736.926157	811.5726854			
448.041887	591.2673407	510.2320701	807.3349692			
516.5137659	0.643423202	0.000536961	0.006519875			
C1orf112	1	169662007	169854080	+		5967
protein_coding	chromosome 1 open reading frame 112					
[Source:HGNC	Symbol;Acc:HGNC:25565]	-	446	647	520	6.919673874
446	647	520	6.919673874	5.874150223		830

6.443539725	3.613932506	4.725054701	4.068116127	
ENSG00000116478	3617.81916	3616.963352	3858.39255	
2372.81376	2801.894384	2885.754843	3697.725021	
2686.820996	0.460687294	0.000538201	0.00652974	HDAC1
1	32292086	32333635	+ 3963	
protein_coding	histone deacetylase 1 [Source:HGNC			
Symbol;Acc:HGNC:4852]	-	3127 3902	3946 2362	3066
2941	43.15176079	43.41073616	46.12490284	
28.81754881	33.71372003	34.64311919		
ENSG00000179562	591.2074163	671.112626	637.5245673	
1087.958214	911.1182978	874.2630278	633.2815365	
957.7798467	-0.596172706	0.000540302	0.006550035	GCC1
7	127580618	127593611	- 4987	
protein_coding	GRIP and coiled-coil domain containing 1 [Source:HGNC			
Symbol;Acc:HGNC:19095]	-	511 724	652 1083	997
891	5.603717649	6.400783766	6.056346067	
10.50002432	8.711930213	8.340351836		
ENSG00000129245	1707.675433	2359.090653	2021.109326	
2662.132288	2965.475302	3210.53718	2029.291804	
2946.048257	-0.537333928	0.000540972	0.006552957	FXR2
17	7591230 7614871	- 4331	protein_coding	FMR1
autosomal homolog 2 [Source:HGNC	Symbol;Acc:HGNC:4024]	-		1476
2545	2067 2650	3245 3272	18.63772445	
25.90798046	22.10826943	29.58413712	32.65014506	
35.26721351				
ENSG00000213853	1233.321146	1212.452092	1477.453407	
774.5298092	847.1481064	995.9337523	1307.742215	
872.5372226	0.583888238	0.000541685	0.006556404	EMP2
16	10528422	10580698	- 8718	
protein_coding	epithelial membrane protein 2 [Source:HGNC			
Symbol;Acc:HGNC:3334]	-	1066 1308	1511 771	927
1015	6.687057426	6.614923671	8.0287892	
4.276010174	4.633631229	5.434945749		
ENSG00000213139	20.82531016	17.61207168	41.06753348	0
3.65543951	0	26.50163844	1.218479837	
4.403948573	0.000550122	0.006653258	CRYGS 3	
186538441	186546702	- 2151	protein_coding	
crystallin gamma S [Source:HGNC	Symbol;Acc:HGNC:2417]	-		18
19	42 0	4 0	0.457642983	
0.389445911	0.904505758	0 0.081036034	0	
ENSG00000090565	1109.526247	1466.436705	1624.123169	
2116.646314	2011.40559	2088.026625	1400.028707	
2072.026176	-0.564858421	0.000555603	0.006714236	
RAB11FIP3	16 425619	523011 +	6317	protein_coding
RAB11 family interacting protein 3 [Source:HGNC				
Symbol;Acc:HGNC:17224]	-	959 1582	1661 2107	2201
2128	8.302376862	11.04153772	12.18039049	
16.12704787	15.1833556	15.72558399		
ENSG00000168710	4814.117533	4623.632291	5505.005083	
3515.019199	3655.43951	3836.552681	4980.918302	

3669.003797	0.441034329	0.000558416	0.006742899	AHCYL1
1	109984686	110023741	+ 5113	
protein_coding	adenosylhomocysteine like 1 [Source:HGNC			
Symbol;Acc:HGNC:344]	-	4161 4988	5630 3499	4000
3910	44.50580244	43.01150213	51.00761976	
33.08791232	34.09123986	35.69825607		
ENSG00000134363	134.2075544	111.2341369	149.6031577	
52.23806755	36.5543951	63.77900877	131.6816163	
50.85715714	1.373700276	0.000569375	0.006869797	FST
5	53480409	53487134	+ 2969	
protein_coding	follistatin [Source:HGNC Symbol;Acc:HGNC:3971]			-
116	120 153	52 40	65	2.136694856
1.781988949	2.387171875	0.846826349	0.587095013	
1.021995997				
ENSG00000061337	195.5265232	245.6420523	455.6540619	
111.5081826	106.0077458	171.7127159	298.9408792	
129.7428814	1.205556884	0.000575772	0.006941498	LZTS1
8	20246165	20303963	- 5706	
protein_coding	leucine zipper tumor suppressor 1 [Source:HGNC			
Symbol;Acc:HGNC:13861]	-	169 265	466 111	116
175	1.619756196	2.047613879	3.783176516	
0.940572827	0.885900241	1.431700963		
ENSG00000239672	1949.480424	1940.108738	2275.336914	
1537.00468	1304.991905	1502.24096	2054.975359	
1448.079182	0.505248145	0.000581525	0.007005334	NME1
17	51153536	51162428	+ 3438	
protein_coding	NME/NM23 nucleoside diphosphate kinase 1 [Source:HGNC			
Symbol;Acc:HGNC:7849]	-	1685 2093	2327 1530	1428
1531	26.80332952	26.84091483	31.35400092	
21.51725045	18.10009827	20.78812666		
ENSG00000101199	2803.31814	3463.089462	3451.628409	
4757.68246	4124.249627	4628.393605	3239.345337	
4503.441897	-0.474974541	0.000583123	0.007019061	
ARFGAP1 20	63272785	63289793	+ 6613	
protein_coding	ADP ribosylation factor GTPase activating protein 1			
[Source:HGNC Symbol;Acc:HGNC:15852]	-		2423 3736	3530
4736	4513 4717	20.03778001	24.90819763	
24.72741049	34.62696177	29.73893479	33.29763508	
ENSG00000102241	3746.241906	3211.885703	3525.941089	
2694.278791	2438.178153	2559.010075	3494.689566	
2563.82234	0.446743985	0.000585627	0.007043646	
HTATSF1 X	136497079	136512346	+ 3136	
protein_coding	HIV-1 Tat specific factor 1 [Source:HGNC			
Symbol;Acc:HGNC:5276]	-	3238 3465	3606 2682	2668
2608	56.46710248	48.71482457	53.26625014	
41.35080189	37.07390809	38.82196993		
ENSG00000197043	2325.492968	1941.035689	2831.704213	
1354.171443	1293.111727	1899.633246	2366.077623	
1515.638805	0.642614913	0.000586129	0.007044145	ANXA6
5	151100712	151157882	- 5427	

protein_coding	annexin A6 [Source:HGNC Symbol;Acc:HGNC:544]	-				
2010	2094	2896	1348	1415	1936	20.25493942
17.01182137		24.71958593		12.00967589		11.36201128
16.65296492						
ENSG0000050405	1585.037496		1192.059167		1387.495953	
829.7816114	963.2083108		997.8961833		1388.197538	
930.2953685	0.57676786		0.000587103		0.007050309	LIMA1
12	50175788		50283546		- 6317	
protein_coding	LIM domain and actin binding 1 [Source:HGNC					
Symbol;Acc:HGNC:24636]	-		1370 1286		1419 826	1054
1017	11.86053837		8.975611569		10.40576406	
6.322231393	7.27090268		7.515469417			
ENSG00000133112	46438.12774		39484.4108		33119.98795	
47119.7415	60800.0115		64180.32591		39680.84216	
57366.69297	-0.531796458		0.000589079		0.007068481	TPT1
13	45333471		45341370		- 7269	
protein_coding	"tumor protein, translationally-controlled 1					
[Source:HGNC Symbol;Acc:HGNC:12022]"	-				40138 42596	33872
46905	66531 65409		301.9783254		258.3616845	
215.858238	311.9936019		398.8485156		420.0576288	
ENSG00000176225	616.6605732		504.2614206		628.7243816	
314.4329835	338.1281546		412.1105182		583.2154585	
354.8905521	0.716218834		0.000593199		0.007112335	RTTN
18	70003031		70205945		- 19323	
protein_coding	rotatin [Source:HGNC Symbol;Acc:HGNC:18654]					
533	544	643	313	370	420	1.508507132
1.241247263		1.54148348		0.783196973		0.834422042
1.014660543						
ENSG00000132286	888.5465669		922.3163851		760.7271678	
1279.832655	1301.336465		1167.646468		857.1967066	
1249.605196	-0.543902525		0.000595342		0.007132439	
TIMM10B 11	6481447 6484679 +		3041		protein_coding	
translocase of inner mitochondrial membrane 10B					[Source:HGNC	
Symbol;Acc:HGNC:4022]	-		768 995		778 1274	1424
1190	13.81145754		14.42582364		11.8512902	
20.256025	20.40573145		18.26739321			
ENSG00000254615	267.2581471		238.2264432		234.6716199	
383.7488808	437.7388813		419.9602423		246.7187367	
413.8160015	-0.747238229		0.00059686		0.007145029	
AC027031.2	8	106270144		106272899		+ 1419
lincRNA novel transcript					231 257	240
382	479	428	8.902752442		7.98517955	
7.83486111	13.01613918		14.70996758		14.08015415	
ENSG00000186594	308.9087674		304.9669253		300.1841138	
463.1105604	524.5555696		484.7204666		304.6866022	
490.7955322	-0.688130824		0.000598874		0.007163526	
MIR22HG 17	1711493 1717174 -		2986		lincRNA MIR22 host	
gene [Source:HGNC Symbol;Acc:HGNC:28219]					- 267 329	
307	461	574	494	4.890082327		4.85780472
4.76267589		7.464699656		8.376848996		7.722949257

ENSG00000157193	1454.300826	1489.610483	1725.814205	
1175.35652	941.2756737	1091.111658	1556.575171	
1069.24795	0.542201059	0.000603898	0.007217977	LRP8
1	53242364	53328070	- 10263	
protein_coding	LDL receptor related protein 8 [Source:HGNC			
Symbol;Acc:HGNC:6700]	-	1257 1607	1765 1170	1030
1112	6.698162223	6.903598184	7.966596784	
5.512044935	4.37342309	5.057972854		
ENSG00000197563	637.4858833	456.0599613	605.2572196	
406.8541799	237.6035681	305.1580266	566.2676881	
316.5385915	0.839270529	0.000608516	0.00726749	PIGN
18	61905255	62187118	- 19003	
protein_coding	phosphatidylinositol glycan anchor biosynthesis class			
N [Source:HGNC	Symbol;Acc:HGNC:8967]	-	551 492	619
405	260 311	1.585711381	1.141502567	
1.508936405	1.03046696	0.596224444	0.763983988	
ENSG00000119699	108.7543975	86.2064561	157.425545	
49.22433288	33.81281546	43.17348286	117.4621329	
42.0702104	1.48269878	0.000610282	0.00728289	TGFB3
14	75958099	75982991	- 4914	
protein_coding	transforming growth factor beta 3 [Source:HGNC			
Symbol;Acc:HGNC:11769]	-	94 93	161 49	37
44	1.046134234	0.834414331	1.517725321	
0.482127767	0.328114309	0.417987756		
ENSG00000188636	1345.546429	1180.008802	1372.828976	
1946.872594	1702.520952	1851.553685	1299.461402	
1833.649077	-0.496961653	0.000611379	0.007290285	RTL6
22	44492572	44498298	- 5495	
protein_coding	retrotransposon Gag like 6 [Source:HGNC			
Symbol;Acc:HGNC:13343]	-	1163 1273	1404 1938	1863
1887	11.5746197	10.21397204	11.8359158	
17.05246993	14.77419259	16.03061704		
ENSG00000109881	748.5542042	801.8127368	894.6855508	
532.4264577	559.282245	531.8188116	815.0174973	
541.1758381	0.591007031	0.000613367	0.007303054	CCDC34
11	27330827	27363868	- 3733	
protein_coding	coiled-coil domain containing 34 [Source:HGNC			
Symbol;Acc:HGNC:25079]	-	647 865	915 530	612
542	9.478530316	10.21626326	11.35443582	
6.864661016	7.144174107	6.777777885		
ENSG00000120265	1629.002039	1386.718907	1365.006589	
953.3447327	964.1221707	1105.82989	1460.242512	
1007.765598	0.534653941	0.000613405	0.007303054	PCMT1
6	149749443	149811420	+ 2832	
protein_coding	protein-L-isoaspartate (D-aspartate) O-			
methyltransferase [Source:HGNC	Symbol;Acc:HGNC:8728]	-		1408
1496	1396 949	1055 1127	27.18968139	
23.2901509	22.83466397	16.20220713	16.23371093	
18.57704798				
ENSG00000113916	804.0883646	757.3190821	585.7012513	

1030.697256	1143.238707	1082.280718	715.7028993	
1085.40556	-0.60146547	0.000619052	0.00736455	BCL6
3	187721377	187745727	- 5938	
protein_coding	B cell CLL/lymphoma 6 [Source:HGNC			
Symbol;Acc:HGNC:1001]	ZBTB	695 817	599 1026	1251
1103	6.400874675	6.06618738	4.672927951	
8.354267633	9.180698269	8.671242962		
ENSG00000182446	5253.762969	5135.30932	4968.193753	
8689.60162	6561.51392	6357.295351	5119.088681	
7202.80363	-0.492651751	0.000620067	0.007370892	NPL0C4
17	81556887	81648465	- 9574	
protein_coding	"NPL4 homolog, ubiquitin recognition factor			
[Source:HGNC	Symbol;Acc:HGNC:18261]"	-	4541 5540	5081
8650	7180 6479	25.93897386	25.51234032	
24.58432155	43.68415112	32.68056971	31.59079772	
ENSG00000172795	1000.771849	787.9084697	959.2202463	
623.8430759	563.8515444	625.0342859	915.9668552	
604.2429687	0.599786119	0.000622016	0.007388311	DCP2
5	112976702	113020970	+ 9951	
protein_coding	decapping mRNA 2 [Source:HGNC			
Symbol;Acc:HGNC:24452]	-	865 850	981 621	617 637
4.753834892	3.766050657	4.566723706	3.017352786	
2.701948304	2.98826248			
ENSG00000117461	252.2176453	214.1257135	365.6966076	
105.4807133	179.116536	77.51602604	277.3466555	
120.7044251	1.198739081	0.000627255	0.007440307	PIK3R3
1	46040140	46133036	- 7410	
protein_coding	phosphoinositide-3-kinase regulatory subunit 3			
[Source:HGNC	Symbol;Acc:HGNC:8981]	-	218 231	374
105	196 79	1.608914621	1.3744446152	
2.338061066	0.685128932	1.152647363	0.497685421	
ENSG00000198933	233.7062585	382.8308212	312.8954932	
514.3440497	563.8515444	521.0254408	309.8108576	
533.0736783	-0.780808062	0.000627402	0.007440307	TBKBP1
17	47694081	47712050	+ 4280	
protein_coding	TBK1 binding protein 1 [Source:HGNC			
Symbol;Acc:HGNC:30140]	-	202 413	320 512	617
531	2.581085037	4.254418815	3.463447949	
5.783988336	6.282029808	5.791576375		
ENSG00000183778	201.3113316	124.2114529	274.7613549	
90.41203998	41.12369448	96.15912091	200.0947131	
75.89828512	1.39992653	0.000627854	0.007440307	
B3GALT5 21	39556442	39673137	+ 14319	
protein_coding	"beta-1,3-galactosyltransferase 5 [Source:HGNC			
Symbol;Acc:HGNC:920]"	-	174 134	281 90	45
98	0.664555523	0.412597001	0.909067406	
0.303900236	0.13694886	0.319491584		
ENSG00000100151	440.8023984	621.9842155	487.9214097	
850.8777541	698.1889463	967.4785022	516.9026745	
838.8484009	-0.697170818	0.000629039	0.007448585	PICK1

22	38056311	38075701	+	4371	
protein_coding	protein interacting with PRKCA 1 [Source:HGNC				
Symbol;Acc:HGNC:9394]	-	381 671	499 847	764	
986	4.766931178	6.768238775	5.288374409		
9.369228274	7.616775406	10.53033395			
ENSG00000073060	941.766804	1334.809643	1700.391446		
714.2551159	764.9007174	932.1547435	1325.655964		
803.7701923	0.722453874	0.000633627	0.007497097	SCARB1	
12	124776856	124882668	- 7741		
protein_coding	scavenger receptor class B member 1 [Source:HGNC				
Symbol;Acc:HGNC:1664]	-	814 1440	1739 711	837	
950	5.750717718	8.201615072	10.40650675		
4.440928181	4.711801524	5.728917572			
ENSG00000104221	321.6353458	317.0172902	261.0721771		
666.0353612	510.8476715	403.2795785	299.908271		
526.7208704	-0.812714222	0.000636953	0.007529952	BRF2	
8	37843268	37849904	- 2760		
protein_coding	"BRF2, RNA polymerase III transcription initiation				
factor subunit [Source:HGNC	Symbol;Acc:HGNC:17298]"	-	278		
342	267 663	559 411	5.508462872		
5.463248837	4.481306361	11.61463758	8.825947171		
6.951503978					
ENSG00000169710	15172.39542	18892.1912	24400.95948		
12966.09111	10127.39516	15168.61072	19488.51536		
12754.03233	0.611734438	0.000637388	0.007529952	FASN	
17	82078333	82098332	- 9364		
protein_coding	fatty acid synthase [Source:HGNC	Symbol;Acc:HGNC:3594]			
-	13114 20381	24955 12907	11082 15459		
76.58936821	95.96172406	123.4521407	66.64462392		
51.57216204	77.06656959				
ENSG00000139880	211.7239867	294.7704628	501.6105875		
214.9797395	113.3186248	92.23425883	336.0350123		
140.177541	1.263106654	0.000637906	0.007530245	CDH24	
14	23047062	23057538	- 3748		
protein_coding	cadherin 24 [Source:HGNC	Symbol;Acc:HGNC:14265]	-		
183	318 513	214 124	94 2.670214932		
3.740774213	6.340452286	2.760675796	1.441719261		
1.170777337					
ENSG00000234741	4468.185992	4370.574629	3318.647824		
4642.155964	6616.345512	7035.315275	4052.469482		
6097.938917	-0.589641221	0.000639633	0.007544801	GAS5	
1	173863900	173868882	- 3631		
processed_transcript	growth arrest specific 5 [Source:HGNC				
Symbol;Acc:HGNC:16355]	-	3862 4715	3394 4621	7240	
7170	58.16754484	57.25183436	43.30001481		
61.53340334	86.89022364	92.18047519			
ENSG00000171222	843.4250616	1862.244842	1539.054707		
2743.503124	2013.23331	2524.667532	1414.908204		
2427.134655	-0.777669636	0.000640181	0.007545445	SCAND1	
20	35953617	35959472	- 1996		

protein_coding	SCAN domain containing 1 [Source:HGNC					
Symbol;Acc:HGNC:10566]	-	729	2009	1574	2731	2203
	2573	19.97384632	44.37653184	36.52974553		
66.1549552	48.09639858	60.17627283				
ENSG00000172936	1032.009815	1241.187578	1215.403431			
1618.375516	1650.430939	1669.047599	1162.866941			
1645.951351	-0.50062603	0.000643101	0.007574028			MYD88
	3	38138478	38143022	+	3989	
protein_coding	"MYD88, innate immune signal transduction adaptor					
[Source:HGNC Symbol;Acc:HGNC:7562]"	-		892	1339	1243	
	1611	1806	1701	12.22912913	14.79961776	
14.43475936	19.52687385	19.72932865	19.90610604			
ENSG00000196510	843.4250616	854.6489519	897.618946			
603.7515114	592.1812006	568.1237858	865.2309865			
588.0188326	0.557341776	0.000647954	0.007625303			ANAPC7
	12	110372900	110403730	-	6009	
protein_coding	anaphase promoting complex subunit 7 [Source:HGNC					
Symbol;Acc:HGNC:17380]	-	729	922	918	601	648
	579	6.634680855	6.764920154	7.076897949		
4.835857384	4.699280833	4.498030496				
ENSG00000152953	59.00504546	51.90926389	94.84644637			
22.10072088	16.44947779	15.69944831	68.58691857			
18.08321566	1.924897338	0.000652404	0.007671773			STK32B
	4	5051442	5500998	+	5324	protein_coding
serine/threonine kinase 32B	[Source:HGNC Symbol;Acc:HGNC:14217] -					
	51	56	97	22	18	16
	0.463750017	0.84398775	0.199795568	0.523873997	0.147330633	
	0.140290406					
ENSG00000004864	1266.873035	994.6185741	1159.668922			
810.6946252	610.4583981	808.521588	1140.386844			
743.2248704	0.617563201	0.000653707	0.007681188			
SLC25A13	7	96120220	96322147	-		3710
protein_coding	solute carrier family 25 member 13					
[Source:HGNC Symbol;Acc:HGNC:10983]	-		1095	1073	1186	
	807	668	824	16.14116668	12.75145581	
14.80857384	10.51721717	7.846232095	10.36810383			
ENSG00000187678	697.6478905	858.3567564	756.8159741			
1143.210017	1150.549586	1087.186796	770.940207			
1126.982133	-0.547045208	0.000655713	0.007698833			SPRY4
	5	142310427	142326455	-	6565	
protein_coding	sprouty RTK signaling antagonist 4 [Source:HGNC					
Symbol;Acc:HGNC:15533]	-	603	926	774	1138	1259
	1108	5.02316327	6.218851898	5.461459105		
8.381249092	8.356984515	7.878636538				
ENSG00000196369	264.9442237	324.4328993	362.7632124			
194.8881751	160.8393384	163.8629918	317.3801118			
173.1968351	0.875236486	0.00065761	0.007715185			
SRGAP2B 1	144887265	145095528	-	7230		
protein_coding	SLIT-ROBO Rho GTPase activating protein 2B					
[Source:HGNC Symbol;Acc:HGNC:35237]	-		229	350	371	

194	176	167	1.732175525	2.134340498	
2.377048638	1.297372384		1.060798674	1.078261775	
ENSG00000197601	2367.143589		1984.602393	1839.238821	
1509.881068	1413.74123		1433.555874	2063.661601	
1452.392724	0.506415603		0.0006595	0.007727951	FAR1
11	13668670		13732346	+ 7501	
protein_coding	fatty acyl-CoA reductase 1 [Source:HGNC				
Symbol;Acc:HGNC:26222]	-	2046	2141	1881 1503	1547
1461	14.91698925		12.58436945	11.61641412	
9.688153956	8.987310494		9.092369706		
ENSG00000107485	82.14427898		97.32986979	120.2692052	
17.07782977	35.64053522		42.19226734	99.91445132	
31.63687744	1.658380896		0.000659709	0.007727951	GATA3
10	8045378 8075203	+	3436	protein_coding	GATA
binding protein	3 [Source:HGNC Symbol;Acc:HGNC:4172] zf-GATA				71
105	123 17		39 43	1.130055846	
1.347317969	1.658266824		0.239219723	0.494618151	
0.584199709					
ENSG00000145431	2568.45492		1672.219858	1994.708769	
1507.871911	1323.269102		1304.035425	2078.461182	
1378.392146	0.592050978		0.000664169	0.00777294	PDGFC
4	156760454		156971394	- 5593	
protein_coding	platelet derived growth factor C [Source:HGNC				
Symbol;Acc:HGNC:8801]	-	2220	1804	2040 1501	1448
1329	21.70715303		14.22085381	16.89615185	
12.97588803	11.28190245		11.09241725		
ENSG00000188352	586.5795696		688.7246976	692.2812786	
481.1929683	333.5588553		396.4110699	655.8618486	
403.7209645	0.701176218		0.000664567	0.00777294	FOCAD
9	20658309		20995955	+ 10036	
protein_coding	focadhesin [Source:HGNC Symbol;Acc:HGNC:23377]				-
507	743 708		479 365	404 2.762752747	
3.264089956	3.267947424		2.307682609	1.584859654	
1.879172933					
ENSG00000137404	828.3845598		807.3744437	1121.534783	
406.8541799	588.5257611		654.4707515	919.0979289	
549.9502308	0.740820111		0.000665253	0.007775013	NRM
6	30688047		30691420	- 2045	
protein_coding	nurim [Source:HGNC Symbol;Acc:HGNC:8003]				-
716	871 1147		405 644	667 19.14760337	
18.77840929	25.98199898		9.57553234	13.72306602	
15.22574519					
ENSG00000215784	144.6202095		118.649746	160.3589403	
31.14192488	62.14247166		67.70387084	141.2096319	
53.6627558	1.394029359		0.000667286	0.007792817	FAM72D
1	145096000		145112696	+ 2397	
protein_coding	family with sequence similarity 72 member D				
[Source:HGNC Symbol;Acc:HGNC:33593]	-			125 128	164
31	68 69		2.85191575	2.354376388	
3.169408876	0.625309283		1.236230563	1.343776657	

ENSG00000173083	165.4455196		134.4079154		191.6484896	
50.2289111	82.24738897		76.53481052		163.8339749	
69.6703702	1.23195131		0.000669716		0.007815231	HPSE
4	83292461		83335153		- 4721	
protein_coding	heparanase [Source:HGNC Symbol;Acc:HGNC:5164]				-	
143	145	196	50	90	78	1.656520252
	1.354153697	1.923200338	0.5120793			0.830743796
	0.771270354					
ENSG00000144857	248.7467603		252.1307103		455.6540619	
175.8011889	134.337402		157.9756986		318.8438442	
156.0380965	1.032170588		0.000683876		0.007974376	BOC
3	113211003		113287459		+ 10330	
protein_coding	"BOC cell adhesion associated, oncogene regulated [Source:HGNC Symbol;Acc:HGNC:17173]"				-	215 272 466
175	147	161	1.138237399		1.160920661	
2.089719768	0.819103806		0.620119818		0.727564651	
ENSG00000169045	7781.724231		7821.613726		7547.625974	
6006.373189	5109.390575		6165.958324		7716.987977	
5760.574029	0.421885115		0.000688424		0.008015291	
HNRNPH1	5	179614178	179634784		- 9480	
protein_coding	heterogeneous nuclear ribonucleoprotein H1 [Source:HGNC Symbol;Acc:HGNC:5041]				-	6726 8438 7719
5979	5591	6284	38.80102857		39.24326578	
37.7185648	30.49449408		25.7003923		30.94381635	
ENSG00000143499	1213.652798		1007.59589		1195.847463	
525.3944101	760.331418		853.6575019		1139.03205	
713.1277767	0.67506418		0.000688738		0.008015291	SMYD2
1	214281102		214337131		+ 4889	
protein_coding	SET and MYND domain containing 2 [Source:HGNC Symbol;Acc:HGNC:20982]				-	1049 1087 1223 523 832
870	11.73411023		9.802649282		11.58801038	
5.172290014	7.415866222		8.307019907			
ENSG00000197183	388.739123		406.0045997		693.2590771	
157.7187809	313.453938		266.8906213		496.0009333	
246.0211134	1.011203316		0.000688957		0.008015291	NOL4L
20	32443059		32585074		- 9448	
protein_coding	nucleolar protein 4 like [Source:HGNC Symbol;Acc:HGNC:16106]				-	336 438 709 157 343
272	1.9448858		2.043940193		3.476232427	
0.803453939	1.582023146		1.343925069			
ENSG00000141933	381.797353		625.6920201		503.5661843	
677.0857216	988.7963874		884.075183		503.6851858	
849.985764	-0.753699789		0.00069138		0.008037356	TPGS1
19	507497	519654	+ 3642		protein_coding	
tubulin polyglutamylase complex	subunit 1 [Source:HGNC Symbol;Acc:HGNC:25058]				-	330 675 515 674 1082
901	4.955285838		8.171424819		6.550428995	
8.947901024	12.94630747		11.54864111			
ENSG00000143416	244.1189136		194.6597396		231.7382246	
59.2701151	129.7681026		109.8961382		223.5056259	

99.64478529	1.163192268	0.000692744	0.008037859	
SELENBP1	1	151364302	151372733	- 3504
	protein_coding	selenium binding protein 1 [Source:HGNC		
Symbol;Acc:HGNC:10719]	-	211	210	237 59 142
112	3.293161811	2.642342774	3.133189802	
0.814121325	1.765968061	1.492106977		
ENSG00000176974	857.3086017	1099.364053	1230.070408	
587.6782599	724.6908828	732.967993	1062.247687	
681.7790452	0.640184956	0.000692855	0.008037859	SHMT1
17	18327860	18363563	- 7281	
	protein_coding	serine hydroxymethyltransferase 1 [Source:HGNC		
Symbol;Acc:HGNC:10850]	-	741	1186	1258 585 793
747	5.565726864	7.181705895	8.003723296	
3.884776622	4.746142287	4.78933931		
ENSG00000184436	750.8681275	984.4221116	846.7734284	
1162.297003	1272.092949	1404.119408	860.6878892	
1279.50312	-0.571240274	0.000693	0.008037859	THAP7
22	20999104	21002196	- 2879	
	protein_coding	THAP domain containing 7 [Source:HGNC		
Symbol;Acc:HGNC:23190]	THAP	649	1062	866 1157 1392
1431	12.32814531	16.2636047	13.9340923	
19.43089973	21.06959405	23.20299277		
ENSG00000126947	1032.009815	1122.537832	913.2637207	
1649.517441	1593.771626	1279.505037	1022.603789	
1507.598035	-0.559952103	0.000694651	0.008050895	ARMCX1
X	101550531	101554700	+ 2141	
	protein_coding	armadillo repeat containing X-linked 1 [Source:HGNC		
Symbol;Acc:HGNC:18073]	-	892	1211	934 1642 1744
1304	22.78467823	24.93798927	20.20843421	
37.08153486	35.49673522	28.43197051		
ENSG00000160299	2139.222138	1896.542034	3270.735702	
1617.370937	1170.654503	1708.296219	2435.499958	
1498.773887	0.700675027	0.000697389	0.008076507	PCNT
21	46324122	46445769	+ 11660	
	protein_coding	pericentrin [Source:HGNC Symbol;Acc:HGNC:16068]	-	
1849	2046	3345	1610	1281 1741 8.672275649
	7.736437777	13.28923641	6.676187758	4.7875043
	6.970216319			
ENSG00000162852	1458.928673	1313.489767	1142.06855	
1930.799343	1894.431526	1746.563625	1304.828997	
1857.264831	-0.509790764	0.000700471	0.008105263	CNST
1	246566444	246668584	+ 5922	
	protein_coding	"consortin, connexin sorting protein [Source:HGNC		
Symbol;Acc:HGNC:26486]"	-	1261	1417	1168 1922 2073
1780	11.64505104	10.54958572	9.136437665	
15.69228535	15.25420213	14.03129111		
ENSG00000167767	533.3593325	646.0849452	808.6392902	
448.041887	285.1242818	414.0729492	662.6945226	
382.4130393	0.794498781	0.000700933	0.008105263	KRT80
12	52168996	52192000	- 4350	

protein_coding	keratin 80 [Source:HGNC Symbol;Acc:HGNC:27056]	-					
	461	697	827	446	312	422	5.795706459
	7.064435741		8.806811653		4.957318451		3.125531893
	4.528654928						
ENSG00000170006	241.8049902		300.3321696		134.9361814		
507.3120021	416.7201041		401.3171475		225.6911138		
441.7830846	-0.968699646		0.000704009		0.008133084		
TMEM154 4	152618632		152680165		-	11587	
protein_coding	transmembrane protein 154 [Source:HGNC						
Symbol;Acc:HGNC:26489]	-		209	324	138	505	456
	409	0.986438449	1.232843533		0.551709593		
2.107276809	1.714953834		1.647776622				
ENSG00000126561	401.4657015		355.9492381		457.6096588		
174.7966106	259.5362052		246.2850954		405.0081994		
226.8726371	0.835225137		0.000704403		0.008133084		STAT5A
	17	42287547	42311943		+	5754	
protein_coding	signal transducer and activator of transcription 5A						
[Source:HGNC Symbol;Acc:HGNC:11366]	STAT		347	384	468		
	174	284	251	3.298027936	2.942356727		
3.767718532	1.462111885		2.150834927		2.03633816		
ENSG00000117528	1905.51588		1767.695826		1983.952986		
1333.075301	1417.39667		1345.246477		1885.721564		
1365.239483	0.465786717		0.000707644		0.008162704		ABCD3
	1	94418455	94518666		+	7589	
protein_coding	ATP binding cassette subfamily D member 3 [Source:HGNC						
Symbol;Acc:HGNC:67]	-		1647	1907	2029	1327	1551
	1371	11.86871658	11.07898816		12.38511233		
8.454493343	8.906064636		8.433326951				
ENSG00000136942	10266.87791		10503.28338		10920.05271		
12859.60582	13495.88267		18530.25509		10563.40467		
14961.91452	-0.502199699		0.000708036		0.008162704		RPL35
	9	124857880	124861981		-	1535	
protein_coding	ribosomal protein L35 [Source:HGNC						
Symbol;Acc:HGNC:10344]	-		8874	11331	11168	12801	14768
	18885	316.1591515	325.4571505		337.0307146		
403.2150504	419.2488709		574.3209321				
ENSG00000137309	10402.24243		17047.55843		13773.26849		
19698.77436	18769.76802		22037.11935		13741.02312		
20168.55391	-0.553512038		0.000709682		0.008175512		HMGA1
	6	34236873	34246231		+	2327	
protein_coding	high mobility group AT-hook 1 [Source:HGNC						
Symbol;Acc:HGNC:5010]	HMGI/HMGY		8991	18391	14086	19609	
	20539	22459	211.3033231	348.4519659	280.4101673		
	407.4368258	384.6285426	450.5469641				
ENSG00000105486	1790.976674		2081.932262		2539.342487		
1174.351942	1135.013968		1758.338211		2137.417141		
1355.901373	0.656948554		0.000711996		0.008195997		LIG1
	19	48115445	48170603		-	6576	
protein_coding	DNA ligase 1 [Source:HGNC Symbol;Acc:HGNC:6598]	-					
	1548	2246	2597	1169	1242	1792	12.87371423

	15.05850666	18.29416538	8.59515916	8.230351608	
	12.72102882				
ENSG00000210196	218.6657567		215.0526647	214.1378531	
405.8496017	337.2142948		362.0685267	215.9520915	
368.3774744	-0.770324543		0.000713244	0.008198165	MT-TP
MT	15956	16023	-	68	Mt_tRNA
mitochondrially encoded tRNA proline [Source:HGNC					
Symbol;Acc:HGNC:7494]	-		189	232	219
	369	152.0014057	150.4225789	149.1892937	369
287.2590163	236.4699999		253.3165061		
ENSG00000075213	240.6480285		270.6697331	203.3820706	
452.0601999	457.8437986		341.4630008	238.2332774	
417.1223331	-0.807978805		0.000713257	0.008198165	SEMA3A
7	83955777		84492724	-	9371
protein_coding	semaphorin 3A [Source:HGNC				
	Symbol;Acc:HGNC:10723]				
-	208	292	208	450	501
					348
1.213869809	1.37382328		1.028205335	2.321815961	
2.329755715	1.733561854				
ENSG00000168807	2420.363826		2027.242145	2382.89474	
1757.00731	1508.782658		1606.249805	2276.83357	
1624.013258	0.487357839		0.000713809	0.008198347	SNTB2
16	69187129		69309052	+	9875
protein_coding	syntrophin beta 2 [Source:HGNC				
	Symbol;Acc:HGNC:11169]				
-	2092	2187	2437	1749	1651
					1637
11.58562023	9.764401679		11.43196486	8.563551654	
7.285654406	7.738514683				
ENSG00000105248	487.0808655		792.5432254	664.902923	
1058.825446	956.8112917		1076.393425	648.1756713	
1030.676721	-0.667588458		0.000714999	0.008199926	YJU2
19	4247079	4269090	+	1671	protein_coding
splicing factor	homolog [Source:HGNC				
	Symbol;Acc:HGNC:25518]				
					-
	421	855	680	1054	1047
					1097
					13.77844981
	22.55919627	18.8510228	30.49757988	27.30416059	
	30.6461705				
ENSG00000136240	9108.759273		7177.382684	7431.267963	
5713.036349	6015.939573		5680.256642	7905.803306	
5803.077521	0.445919588		0.000715296	0.008199926	KDELR2
7	6445953	6484242	-	3990	protein_coding
endoplasmic reticulum protein retention receptor 2 [Source:HGNC					
	Symbol;Acc:HGNC:6305]				
					-
	5789	107.9100934	85.55991049	88.23545964	6583
68.91464908	71.89679934		67.72931601		
ENSG00000099783	9689.554034		9870.175748	10823.25067	
7983.38313	7097.949668		7881.123052	10127.66015	
7654.15195	0.404052216		0.000715556	0.008199926	HNRNPM
19	8444767	8489114	+	5614	protein_coding
heterogeneous nuclear ribonucleoprotein M [Source:HGNC					
	Symbol;Acc:HGNC:5046]				
					-
	8032	81.58439929	83.62374097	91.33525276	7767
68.44347025	60.28919632		66.78782912		

ENSG00000135677	3592.366003	2979.220967	4222.133561		
2718.388669	2089.08368	2565.878583	3597.906844		
2457.783644	0.549868994	0.000717	0.008210319	GNS	
12	64713445	64759447	- 6284		
protein_coding	glucosamine (N-acetyl)-6-sulfatase [Source:HGNC				
Symbol;Acc:HGNC:4422]	-	3105 3214	4318 2706	2286	
2615	27.02216496	22.54984983	31.83089994		
20.82058043	15.85253233	19.42591807			
ENSG00000179271	2384.498014	2568.581611	2679.16766		
3447.712458	3239.633265	3615.779189	2544.082428		
3434.374971	-0.432669056	0.000718907	0.008226		
GADD45GIP1	19 12953119	12957236	-	1782	
protein_coding	GADD45G interacting protein 1 [Source:HGNC				
Symbol;Acc:HGNC:29996]	-	2061 2771	2740 3432	3545	
3685	63.25065173	68.55873316	71.22710926		
93.11953443	86.68962765	96.53300559			
ENSG00000139737	288.0834573	431.0322805	277.6947502		
566.5821172	676.2563093	492.5701908	332.2701626		
578.4695391	-0.798760871	0.000727525	0.008318383	SLAIN1	
13	77697854	77764242	+ 4133		
protein_coding	SLAIN motif family member 1 [Source:HGNC				
Symbol;Acc:HGNC:26387]	-	249 465	284 564	740	
502	3.294796944	4.960454902	3.183137438		
6.598039561	7.802340731	5.670016826			
ENSG00000111696	372.5416596	355.0222869	366.6744061		
719.278007	496.2259134	570.0862168	364.7461175		
595.1967124	-0.706266211	0.00073073	0.008348782	NT5DC3	
12	103770453	103841197	- 8722		
protein_coding	5'-nucleotidase domain containing 3 [Source:HGNC				
Symbol;Acc:HGNC:30826]	-	322 383	375 716	543	
581	2.018991554	1.936050359	1.99167119		
3.969155891	2.712953469	3.109611157			
ENSG00000135315	362.1290045	261.4002217	261.0721771		
169.7737195	115.1463446	168.7690693	294.8671344		
151.2297111	0.963001572	0.000737064	0.008414857	CEP162	
6	84124241	84227635	- 5474		
protein_coding	centrosomal protein 162 [Source:HGNC				
Symbol;Acc:HGNC:21107]	-	313 282	267 169	126	
172	3.127045908	2.271319729	2.259482199		
1.492736417	1.003054082	1.466795908			
ENSG00000215375	89.08604903	100.1107232	128.0915925		
302.3780448	175.4610965	205.0740436	105.7627883		
227.6377283	-1.103818853	0.000739582	0.008432586	MYL5	
4	673580 682033	+ 4305	protein_coding	myosin	
light chain 5 [Source:HGNC Symbol;Acc:HGNC:7586]	-			77	
108	131 301	192 209	0.978165367		
1.106074953	1.40961527	3.380605987	1.943509513		
2.266309223					
ENSG00000164715	853.8377167	788.8354209	1024.73274		
1586.229013	1204.467318	1244.181279	889.1352926		

1344.959203	-0.596876886	0.00073972	0.008432586	LMTK2
7	98106885	98209633	+ 9139	
protein_coding	lemur tyrosine kinase 2 [Source:HGNC			
Symbol;Acc:HGNC:17880]	-	738 851	1048 1579	1318
1268	4.416237256	4.105488507	5.312085556	
8.353811458	6.284566567	6.476891354		
ENSG00000122203	1866.179183	2237.660054	1891.062137	
2560.669888	3145.505698	2725.816713	1998.300458	
2810.6641	-0.491971245	0.00074372	0.00846694	
KIAA1191	5 176346061	176361968	-	3973
protein_coding	KIAA1191 [Source:HGNC			
Symbol;Acc:HGNC:29209]	-	1613 2414	1934 2549	3442 2778
22.20294152	26.78876291	22.54967882	31.0207638	
37.7529505	32.64071866			
ENSG00000185115	519.4757924	620.1303132	581.7900576	
949.3264198	830.6986286	810.4840191	573.7987211	
863.5030225	-0.588742378	0.000743841	0.00846694	NSMCE3
15	29264992	29269829	- 4838	
protein_coding	"NSE3 homolog, SMC5-SMC6 complex component			
[Source:HGNC	Symbol;Acc:HGNC:7677]"	-	449 669	595
945	909 826	5.075457432	6.096691387	
5.69709626	9.444243175	8.187599993	7.970034826	
ENSG00000115355	1564.212186	1342.225252	1755.148157	
1051.793398	1186.190121	765.3481052	1553.861865	
1001.110542	0.63394558	0.000745017	0.008474017	
CCDC88A 2	55287842	55419895	- 33942	
protein_coding	coiled-coil domain containing 88A [Source:HGNC			
Symbol;Acc:HGNC:25523]	-	1352 1448	1795 1047	1298
780	2.178381676	1.880897333	2.449793509	
1.491456081	1.666463712	1.072761575		
ENSG00000115380	10.41265508	36.15109449	33.24514615	0
0	3.924862078	26.60296524	1.308287359	
4.359450825	0.000749107	0.008514196	EFEMP1 2	
55865967	55924139	- 3962	protein_coding	EGF
containing fibulin extracellular matrix protein 1 [Source:HGNC				
Symbol;Acc:HGNC:3218]	-	9 39	34 0	0
4	0.124228932	0.433994368	0.397527248	0
0	0.047129361			
ENSG00000213390	460.4707469	634.0345803	562.2340893	
342.5611737	357.3192121	317.9138283	552.2464722	
339.264738	0.703797459	0.000749955	0.008517506	
ARHGAP19	10 97222173	97292673	-	6167
protein_coding	Rho GTPase activating protein 19 [Source:HGNC			
Symbol;Acc:HGNC:23724]	-	398 684	575 341	391
324	3.529424015	4.890081657	4.319130757	
2.673508979	2.762876082	2.452545638		
ENSG00000258701	34.70885027	52.83621503	37.15633981	
125.5722778	110.5770452	98.12155195	41.56713504	
111.423625	-1.418744742	0.000750687	0.008519489	
LINC00638	14 104821201	104823718	+	2518

lincRNA long intergenic non-protein coding RNA 638							
[Source:HGNC Symbol;Acc:HGNC:28325]	-		30	57			38
125	121	100	0.651568742	0.998051813			
0.699085552	2.400244613		2.094055762	1.853917099			
ENSG00000186017	295.0252273		267.8888797	211.2044579			
493.247907	434.9973016		396.4110699	258.0395216			
441.5520928	-0.776002778		0.000753783	0.008548278			ZNF566
19	36445119		36489902	-		6481	
protein_coding zinc finger protein 566 [Source:HGNC							
Symbol;Acc:HGNC:25919]	zf-C2H2	255	289	216	491		476
404	2.151755252		1.966028365	1.54388229			
3.663031785	3.200541987		2.909949013				
ENSG00000160796	470.883402		769.3694469	489.8770065			
1174.351942	811.5075711		936.0796056	576.7099518			
973.9797061	-0.75468986		0.000756992	0.008578311			NBEAL2
3	46979683		47009703	+		9819	
protein_coding neurobeachin like 2 [Source:HGNC							
Symbol;Acc:HGNC:31928]	-	407	830	501	1169		888
954	2.266845191		3.726874688	2.363594233			
5.756366905	3.940980659		4.53552067				
ENSG00000275496	129.5797077		74.15609127	84.09066379			
11.05036044	23.76035681		44.15469838	95.94215425			
26.32180521	1.86357748		0.000758472	0.008585464			
CU633906.1	21	6228966	6267317	-		2878	lincRNA
uncharacterized LOC102724701 [Source:NCBI gene;Acc:102724701]							-
112	80	86	11	26	45		2.128246588
1.225555986	1.384235929		0.184800487	0.393678009			
0.729907389							
ENSG00000223756	72.88858557		148.3121825	72.3570828			
215.9843177	215.6709311		232.5480781	97.85261697			
221.401109	-1.174069495		0.000758747	0.008585464			TSSC2
11	3380961	3408978	+			3666	
transcribed_unprocessed_pseudogene tumor suppressing							
subtransferable candidate 2 pseudogene [Source:HGNC							
Symbol;Acc:HGNC:12384]	-	63	160	74	215		236
237	0.939815929		1.924249933	0.935064814			
2.835614678	2.805292432		3.017879682				
ENSG00000103742	463.941632		554.3167822	824.2840648			
347.5840648	264.1055046		407.2044406	614.1808263			
339.6313367	0.855819742		0.00075991	0.008592267			IGDCC4
15	65381464		65423072	-		7764	
protein_coding immunoglobulin superfamily DCC subclass member 4							
[Source:HGNC Symbol;Acc:HGNC:13770]	-			401	598		843
346	289	415	2.824577912	3.395858732			
5.029728046	2.154724692		1.622074936	2.495218639			
ENSG00000179364	1144.235097		1436.774268	1424.652292			
1884.588745	2038.821387		1790.718323	1335.220553			
1904.709485	-0.511938894		0.000760937	0.008597515			PACS2
14	105300563		105398147	+		12363	
protein_coding phosphofurin acidic cluster sorting protein 2							

[Source:HGNC Symbol;Acc:HGNC:23794]	-	989	1550	1457
1876	2231 1825	4.374889973	5.527665914	
5.459314808	7.336859142	7.863833303	6.891044197	
ENSG00000232949	26.61011854	12.97731597	2.933395248	0
0	0	14.17360992	0	6.314565944
0.00076642	1	AC002480.2	7	22589705
22591622	+	557	antisense	"novel transcript,
antisense to STEAP1B"	-	23	14	3 0 0
0	2.258225741	1.108171045	0.249498831	0
0	0			
ENSG00000167625	406.0935482	348.533629	490.8548049	
608.7744025	668.0315704	716.2873292	415.1606607	
664.364434	-0.678533248	0.000767236	0.008656968	ZNF526
19	42220271	42228201	+	4271
protein_coding	zinc finger protein 526 [Source:HGNC			
Symbol;Acc:HGNC:29415]	zf-C2H2	351 376	502 606	731
730	4.494405546	3.881434229	5.444733175	
6.860318347	7.458412572	7.978832069		
ENSG00000149968	830.6984832	466.2564238	490.8548049	
1309.970002	697.2750865	1274.59896	595.9365706	
1093.948016	-0.877382725	0.000767646	0.008656968	MMP3
11	102835801	102843803	-	2048
protein_coding	matrix metalloproteinase 3 [Source:HGNC			
Symbol;Acc:HGNC:7173]	-	718 503	502 1304	763
1299	19.1729617	10.828592	11.35471455	
30.78568743	16.23503329	29.6091019		
ENSG00000125651	2775.55106	3658.676153	3711.722788	
4953.575213	4196.444557	5413.366021	3381.983334	
4854.46193	-0.521089673	0.000767897	0.008656968	GTF2F1
19	6379569 6393981	-	3134	protein_coding
general transcription factor IIF subunit 1 [Source:HGNC				
Symbol;Acc:HGNC:4652]	-	2399 3947	3796 4931	4592
5517	41.86257789	55.52672921	56.10863035	
76.07417073	63.85008577	82.17695176		
ENSG00000166130	963.7490759	721.1679876	755.8381757	
339.547439	456.0160788	624.0530704	813.5850797	
473.2055294	0.781123161	0.000769689	0.008670771	IKBIP
12	98613405	98645113	-	4163
protein_coding	IKBKB interacting protein [Source:HGNC			
Symbol;Acc:HGNC:26430]	-	833 778	773 338	499
636	10.94292199	8.23961926	8.601526642	
3.925649362	5.223393358	7.131760342		
ENSG00000198331	175.8581747	295.6974139	308.0065011	
138.6317946	127.026523	117.7458623	259.8540299	
127.8013933	1.025758745	0.000770529	0.008673837	HYLS1
11	125883614	125900648	+	2999
protein_coding	"HYLS1, centriolar and ciliogenesis associated			
[Source:HGNC Symbol;Acc:HGNC:26558]"	-	152 319	315	
138	139 120	2.771799646	4.689733621	
4.86560158	2.224865887	2.019746816	1.867887932	

ENSG0000007968	452.3720152	517.2387366	756.8159741		
355.6206906	354.5776324	275.721561	575.4755753		
328.6399613	0.808798371	0.000772691	0.00869178	E2F2	
1	23506430	23531220	- 5457		
protein_coding	E2F transcription factor 2 [Source:HGNC				
Symbol;Acc:HGNC:3114]	E2F	391	558	774	354 388
281	3.918478934	4.508314482	6.570364491		
3.136537792	3.098392049	2.403800394			
ENSG00000213513	21.98227184	1.853902282	19.55596832	0	
0	0	14.46404748	0	6.344456106	
0.000780602	1	IMPDH1P5	10	77780337	
77781876	-	1540	processed_pseudogene	inosine	
monophosphate dehydrogenase 1	pseudogene 5 [Source:HGNC				
Symbol;Acc:HGNC:33960]	-	19	2	20	0 0
0	0.674726229	0.057258931	0.601605407	0	
0	0				
ENSG00000105290	53.22023708	48.20145932	87.02405904		
23.10529911	9.138598774	11.77458623	62.81525182		
14.67282804	2.102584278	0.000784004	0.008812556	APLP1	
19	35867899	35879791	+ 3656		
protein_coding	amyloid beta precursor like protein 1 [Source:HGNC				
Symbol;Acc:HGNC:597]	-	46	52	89	23 10
12	0.68809176	0.627091789	1.127681032		
0.304174544	0.119193456	0.153221989			
ENSG00000158863	951.0224974	1266.215258	1193.891866		
1669.609005	1605.651805	1646.479642	1137.043207		
1640.58015	-0.528065806	0.000784626	0.008813064		
FAM160B2	8	22089159	22104898	+ 8278	
protein_coding	family with sequence similarity 160 member B2				
[Source:HGNC Symbol;Acc:HGNC:16492]	-	822	1366	1221	
1662	1757	1678	5.430516133	7.275439527	
6.832705426	9.707486916	9.249216328	9.462645497		
ENSG00000175573	790.2048245	1326.467083	1098.067621		
1516.913115	1676.932875	1807.398987	1071.579843		
1667.081659	-0.636599388	0.000786907	0.008832195		
C11orf68	11	65916808	65919117	- 1761	
protein_coding	chromosome 11 open reading frame 68				
[Source:HGNC Symbol;Acc:HGNC:28801]	-	683	1431	1123	
1510	1835	1842	21.21075172	35.82731282	
29.54084107	41.45899859	45.40830704	48.8288286		
ENSG00000132376	882.7617586	986.2760139	941.6198748		
1242.663261	1303.164185	1475.748141	936.8858824		
1340.525196	-0.516462838	0.000789217	0.008851618	INPP5K	
17	1494571	1516888	- 5325	protein_coding	
inositol polyphosphate-5-phosphatase K	[Source:HGNC				
Symbol;Acc:HGNC:33882]	-	763	1064	963	1237 1426
1504	7.836094028	8.809595621	8.377397654		
11.23185024	11.66966828	13.18482166			
ENSG00000135317	1396.452743	1095.656248	1132.290566		
706.2184901	763.0729976	928.2298814	1208.133186		

799.1737897	0.595631125	0.00079436	0.008902776	SNX14
6	85505496	85594156	- 7105	
protein_coding	sorting nexin 14 [Source:HGNC	Symbol;Acc:HGNC:14977]		
-	1207 1182	1158 703	835 946	
9.290474606	7.334784394	7.549999675	4.784014191	
5.121309126	6.21545734			
ENSG00000103121	767.065591	685.9438442	685.4366897	
489.2295941	468.8101171	461.1712942	712.815375	
473.0703351	0.59106292	0.00079667	0.008922122	CMC2
16	80966448	81020270	- 12781	
protein_coding	C-X9-C motif containing 2 [Source:HGNC	Symbol;Acc:HGNC:24447]		
-	-	663 740	701 487	513
470	2.836895944	2.552706257	2.540713171	
1.842321171	1.749085857	1.716639332		
ENSG00000130758	474.354287	818.4978574	695.2146739	
984.4866576	1071.043776	1150.965804	662.6889394	
1068.832079	-0.688180364	0.000801077	0.008961515	
MAP3K10 19	40191744	40215575	+ 4566	
protein_coding	mitogen-activated protein kinase kinase kinase 10	[Source:HGNC	Symbol;Acc:HGNC:6849]	
-	-	-	410 883	711
980	1172 1173	4.91069162	8.526263583	
7.213335786	10.37746757	11.18536865	11.9924562	
ENSG00000143797	623.6023432	537.6316617	485.9658128	
222.0117871	432.255722	207.0364746	549.0666059	
287.1013279	0.933855512	0.000801632	0.008961515	MBOAT2
2	8852690 9003813	- 8798	protein_coding	
membrane bound	0-acyltransferase domain containing 2 [Source:HGNC	Symbol;Acc:HGNC:25193]		
-	-	539 580	497 221	473
211	3.350422066	2.906551309	2.616826245	
1.214533596	2.342803051	1.119552679		
ENSG00000276550	952.1794591	818.4978574	1089.267436	
663.0216265	417.633964	663.3016912	953.3149174	
581.3190939	0.714071994	0.000801946	0.008961515	
HERC2P2 15	22495570	22590815	+ 6965	
transcribed_unprocessed_pseudogene	hect domain and RLD 2	pseudogene 2 [Source:HGNC	Symbol;Acc:HGNC:4870]	
-	-	-	823 883	
1114 660 457	676	6.462096322	5.589507469	
7.409118244	4.581672383	2.859260187	4.530765773	
ENSG00000171735	600.4631097	634.9615315	561.2562909	
335.5291262	403.0122059	406.2232251	598.893644	
381.5881857	0.650059815	0.0008031	0.008967856	CAMTA1
1	6785324 7769706	+ 10033	protein_coding	
calmodulin binding transcription activator 1 [Source:HGNC	Symbol;Acc:HGNC:18806]	CG-1		
-	-	519 685	574 334	441
414	2.828988997	3.010188673	2.650229818	
1.609595952	1.915430396	1.92626292		
ENSG00000134901	704.5896605	699.8481113	780.2831361	
524.3898319	458.7576585	460.1900786	728.2403026	
481.112523	0.598374921	0.000806155	0.008993762	KDELC1
13	102784281	102799007	- 2367	

protein_coding	KDEL motif containing 1 [Source:HGNC					
Symbol;Acc:HGNC:19350]	-	609	755	798	522	502
	469	14.07063662	14.06315138	15.61734086		
10.66285397	9.241959413	9.249550346				
ENSG00000177370	736.9845874	775.8581049	784.1943298			
1005.5828	1191.67328	1121.529339	765.6790074			
1106.261806	-0.530807742	0.000806597	0.008993762			TIMM22
17	997117	1003671	+	3194		protein_coding
translocase of inner mitochondrial membrane 22 [Source:HGNC						
Symbol;Acc:HGNC:17317]	-	637	837	802	1001	1304
	1143	10.90684731	11.55379092	11.63166571		
15.15306137	17.79103759	16.70541829				
ENSG00000124194	0	0	0	17.07782977	7.310879019	
	15.69944831	0	13.36271904	-6.159065582		
0.000808479	1	GDAP1L1	20	44247099	44280917	
+	3385	protein_coding	ganglioside	induced		
differentiation associated protein 1 like 1 [Source:HGNC						
Symbol;Acc:HGNC:4213]	-	0	0	0	17	8
	16	0	0	0.242823919	0.10298878	
	0.220651734					
ENSG00000163378	797.1465946	677.601284	620.9019943			
369.6847857	476.1209961	472.9458804	698.5499576			
439.5838874	0.66722104	0.000808507	0.009008484			EOGT
3	68975214	69013961	-	5645		
protein_coding	EGF domain specific O-linked N-acetylglucosamine					
transferase [Source:HGNC	Symbol;Acc:HGNC:28526]	-	689	731		
	635	368	521	482	6.674980301	5.709359483
	5.210893952	3.151991872	4.021910248	3.985925047		
ENSG00000101146	2689.935896	2745.629279	2509.030736			
3322.14018	3865.627281	3532.37587	2648.198637			
3573.381111	-0.432373091	0.000814498	0.009068629			RAE1
20	57351010	57379211	+	5855		
protein_coding	ribonucleic acid export 1 [Source:HGNC					
Symbol;Acc:HGNC:9828]	-	2325	2962	2566	3307	4230
	3600	21.71654692	22.30448052	20.30169077		
27.30917069	31.48270687	28.70262634				
ENSG00000124243	39.33669697	83.42560268	89.95745429			
201.9202226	141.648281	179.5624401	70.90658465			
174.3769812	-1.292479787	0.000819273	0.009115152			BCAS4
20	50794894	50882676	+	7583		
protein_coding	breast carcinoma amplified sequence 4 [Source:HGNC					
Symbol;Acc:HGNC:14367]	-	34	90	92	201	155
	183	0.245206836	0.523281537	0.562016709		
1.281610975	0.890736482	1.12656452				
ENSG00000229056	419.9770883	164.0703519	230.7604262			
138.6317946	112.4047649	107.9337071	271.6026221			
119.6567556	1.180548932	0.000820368	0.009120705			
AC020571.1	2	196260024	196264204	+	1607	
	antisense	uncharacterized	LOC101927482	[Source:NCBI		
gene;Acc:101927482]	-	363	177	236	138	123

110	12.35337033	4.856141664	6.802970411		
4.1520677	3.335399293	3.19538244			
ENSG00000101938	24.29619519	4.634755704	11.73358099	0	
0	0	13.55484396	0	6.249634034	
0.00082284	1	CHRD1 X	110673856	110795819	
-	3920	protein_coding	chordin like 1	[Source:HGNC	
Symbol;Acc:HGNC:29861]	-	21	5	12	0
0	0.292973231	0.05623645	0.141806989	0	
0	0				
ENSG00000122691	550.7137576	573.7827562	763.660563		
342.5611737	425.8587029	391.5049923	629.3856923		
386.641623	0.703013172	0.000823726	0.009151383	TWIST1	
7	19020991	19117672	-	2033	
protein_coding	twist family	bHLH transcription	factor 1	[Source:HGNC	
Symbol;Acc:HGNC:12428]	bHLH	476	619	781	341
399	12.80454901	13.42416336	17.79574242		
8.10995075	9.988657819	9.161815735			
ENSG00000186480	3669.882435	3023.714621	3482.917958		
2028.24343	2762.598409	2350.992385	3392.171672		
2380.611408	0.510534887	0.000824633	0.0091548	INSIG1	
7	155297776	155310235	+	3650	
protein_coding	insulin induced	gene 1	[Source:HGNC		
Symbol;Acc:HGNC:6083]	-	3172	3262	3562	2019
2396	47.52641182	39.40261545	45.20677296		3023
26.7451274	36.0914126	30.64361414			
ENSG00000269974	26.61011854	24.10072966	25.42275882	0	
2.741579632	2.943646558	25.37786901	1.895075397		
3.73107461	0.000828384	0.009189772	AC091057.4		
15	30648797	30649529	+	733	
lincRNA	novel transcript	-	23	26	0
3	3	1.716005099	1.56387966	1.643129637	
0	0.178351135	0.191057159			
ENSG00000106399	1308.523655	1289.389037	1215.403431		
751.4245101	919.3430367	955.703916	1271.105374		
875.4904876	0.537632776	0.000836186	0.009269595	RPA3	
7	7636518	7718607	-	3232	protein_coding
replication	protein A3	[Source:HGNC	Symbol;Acc:HGNC:10291]	-	
1131	1391	1243	748	1006	974
18.97534741	17.81567298	11.19003545	13.56392021		
14.06804149					
ENSG00000215301	8774.397349	7931.920912	8471.645478		
6699.532163	6329.393511	6215.0191	8392.654579		
6414.648258	0.38770723	0.000838861	0.009289554	DDX3X	
X	41333284	41364472	+	15892	
protein_coding	DEAD-box helicase	3 X-linked	[Source:HGNC		
Symbol;Acc:HGNC:2745]	-	7584	8557	8664	6669
6334	26.09843591	23.73979332	25.25470751		6926
20.29006216	18.99164259	18.60567963			
ENSG00000184432	4802.547916	4073.023313	4391.292687		
3152.366461	3166.524475	3515.695206	4422.287972		

3278.195381	0.431732353	0.000839202	0.009289554	COPB2
3	139355600	139389732	- 8177	
protein_coding	coatomer protein complex subunit beta 2 [Source:HGNC			
Symbol;Acc:HGNC:2232]	-	4151 4394	4491 3138	3465
3583	27.7621725	23.69190665	25.44201551	
18.55496579	18.46578773	20.45496997		
ENSG00000124172	2105.67025	2530.576615	3056.597849	
1537.00468	1442.984746	2076.252039	2564.281571	
1685.413822	0.605791693	0.000840941	0.009299163	
ATP5F1E 20	59025467	59032382	- 5126	
protein_coding	ATP synthase F1 subunit epsilon [Source:HGNC			
Symbol;Acc:HGNC:838]	-	1820 2730	3126 1530	1579
2116	19.41724001	23.48107648	28.24963414	
14.43158546	13.42338745	19.27006135		
ENSG00000176170	3303.125584	4069.315508	3260.957718	
4302.608525	5378.065379	5222.028995	3544.46627	
4967.567633	-0.486852315	0.000841286	0.009299163	SPHK1
17	76376584	76387860	+ 4416	
protein_coding	sphingosine kinase 1 [Source:HGNC			
Symbol;Acc:HGNC:11240]	-	2855 4390	3335 4283	5885
5322	35.35670301	43.82979239	34.98398107	
46.89431822	58.07323244	56.25897836		
ENSG00000104324	450.0580919	466.2564238	434.1424968	
159.7279373	296.0906003	283.5712851	450.1523375	
246.4632742	0.868224907	0.000842327	0.009303936	CPQ
8	96645227	97149654	+ 3457	
protein_coding	carboxypeptidase Q [Source:HGNC			
Symbol;Acc:HGNC:16910]	-	389 503	444 159	324 289
6.153822063	6.415087191	5.949576408	2.223816567	
4.084173926	3.902514263			
ENSG00000117305	726.5719323	704.482867	700.103666	
904.1203998	1269.35137	1034.201158	710.3861551	
1069.224309	-0.590349929	0.000843855	0.009314088	HMGCL
1	23801885	23838620	- 5658	
protein_coding	3-hydroxy-3-methylglutaryl-CoA lyase [Source:HGNC			
Symbol;Acc:HGNC:5005]	-	628 760	716 900	1389
1054	6.070038049	5.922220961	5.862090718	
7.690964076	10.69788439	8.696083548		
ENSG00000213186	77.51643227	52.83621503	86.04626062	
13.05951689	19.19105743	27.47403455	72.13296931	
19.90820295	1.85586461	0.000846203	0.00933327	TRIM59
3	160432445	160485773	- 7865	
protein_coding	tripartite motif containing 59 [Source:HGNC			
Symbol;Acc:HGNC:30834]	-	67 57	88 13	21
28	0.465876483	0.319528858	0.518306197	
0.079918227	0.116353423	0.166190173		
ENSG00000233608	231.3923351	239.1533943	352.0074298	
171.782876	108.7493254	127.5580175	274.1843864	
136.030073	1.012816982	0.000853312	0.009404889	TWIST2
2	238848032	238910543	+ 1878	

protein_coding	twist family bHLH transcription factor 2 [Source:HGNC Symbol;Acc:HGNC:20670]	bHLH	200	258	360	171	119
	130	5.824103986	6.057007006	8.87992645			
4.402524069	2.761276973	3.231422914					
ENSG00000148335	518.3188307	442.1556942	505.5217812				
733.3421021	687.2226278	803.6155104	488.6654354				
741.3934134	-0.601907356	0.000857813	0.009447684				NTMT1
9	129608884	129636131	+	3029			
protein_coding	N-terminal Xaa-Pro-Lys N-methyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:23373]		-	448	477		517
	730	752	819	8.088601757	6.943094298		
7.906672048	11.65265271	10.81875199	12.62207232				
ENSG00000236750	21.98227184	10.19646255	15.64477466				
129.5905906	38.38211485	46.11712942	15.94116968				
71.3632783	-2.169069034	0.000866886	0.009536499				
AC009237.9	2	95641634	95641980	-			347
processed_pseudogene	pseudogene similar to part of Cdon homolog (mouse) (CDON)	-	19	11	16	129	42
	47	2.994462225	1.397645943	2.135959254			
17.97469178	5.274464982	6.322872421					
ENSG00000116285	7349.020564	6671.267361	4817.612796				
8325.944304	11213.97456	8418.829157	6279.30024				
9319.582672	-0.569800418	0.000867664	0.009536499				ERRFI1
1	8004404	8026308	-	4186			protein_coding
receptor feedback inhibitor 1	[Source:HGNC Symbol;Acc:HGNC:18185]						
	-	6352	7197	4927	8288	12271	8580
82.98621907	75.80297258	54.52375957	95.73081029				
127.7436526	95.68284934						
ENSG00000196576	2696.877666	2404.511259	4147.820881				
1943.85886	1775.629742	2224.415583	3083.069936				
1981.301395	0.638045267	0.000867748	0.009536499				PLXNB2
22	50274979	50307627	-	7257			
protein_coding	plexin B2 [Source:HGNC Symbol;Acc:HGNC:9104]		-				
	2331	2594	4242	1935	1943	2267	17.56628252
	15.75965865	27.0779634	12.89214148	11.66740505			
	14.58278366						
ENSG00000177963	2072.118361	2448.077963	2089.555215				
2924.327204	3012.082156	3053.542697	2203.250513				
2996.650686	-0.443452199	0.000870416	0.00955894				RIC8A
11	207511	215113	+	6685			protein_coding
guanine nucleotide exchange factor A	[Source:HGNC Symbol;Acc:HGNC:29550]						
	-	1791	2641	2137	2911		3296
	3112	14.65172933	17.41810674	14.80831235			
21.05435834	21.48544679	21.73122521					
ENSG00000099139	370.2277362	125.138404	225.8714341				
103.4715569	101.4384464	98.12155195	240.4125248				
101.0105184	1.248564401	0.000874447	0.009596322				PCSK5
9	75890644	76362339	+	12705			
protein_coding	proprotein convertase subtilisin/kexin type 5 [Source:HGNC Symbol;Acc:HGNC:8747]		-	320	135		231

103	111	100	1.377431535	0.46848216	
0.842247569	0.391979877		0.380721065	0.367427253	
ENSG00000138035	1184.728756		1332.955741	1241.803989	
858.9143798	881.8747817		919.3989417	1253.162828	
886.7293678	0.499305815		0.000878939	0.009638691	PNPT1
2	55634265		55693910	- 5134	
protein_coding	polyribonucleotide nucleotidyltransferase 1				
[Source:HGNC Symbol;Acc:HGNC:23166]			-	1024 1438	1270
855	965	937	10.90784116	12.34914755	
11.4590948	8.052142775		8.190870256	8.51980711	
ENSG00000130479	981.103501		1751.010705	1586.966829	
2457.198331	2071.720342		2244.039893	1439.693678	
2257.652855	-0.648177677		0.000879891	0.00964222	MAP1S
19	17719242		17734516	+ 5040	
protein_coding	microtubule associated protein 1S [Source:HGNC				
Symbol;Acc:HGNC:15715]			-	848 1889 1623 2446	2267
2287	9.201529622		16.52476832	14.9173074	
23.46535521	19.60106105		21.18271699		
ENSG00000165655	152.7189412		241.0072966	267.916766	
475.165499	344.5251738		406.2232251	220.5476679	
408.637966	-0.886931374		0.000888608	0.009730769	ZNF503
10	75397830		75401906	- 3347	
protein_coding	zinc finger protein 503 [Source:HGNC				
Symbol;Acc:HGNC:23589]			-	132 260 274 473	377
414	2.15681518		3.424929164	3.792253024	
6.832924859	4.908448465		5.774184606		
ENSG00000254266	0	2.780853423	0	25.11445555	
23.76035681	18.64309487		0.926951141		
22.50596908	-4.528744541		0.000891572	1	PKIA-AS1
8	78426103		78558503	- 2656	
lincRNA	PKIA antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:51659]				
-	0	3	0	25 26 19	0
0.049799748	0		0.455106622	0.426583325	
0.333942402					
ENSG00000104783	1391.824896		1991.091051	1189.002874	
1908.698622	2652.935224		2661.056489	1523.97294	
2407.563445	-0.65947527		0.00089465	0.009789922	KCNN4
19	43766533		43781261	- 3408	
protein_coding	potassium calcium-activated channel subfamily N member				
4 [Source:HGNC Symbol;Acc:HGNC:6293]			-	1203 2148	1216
1900	2903	2712	19.30459763	27.78872679	
16.52861427	26.95598657		37.11983589	37.14805971	
ENSG00000027847	416.5062033		507.042274	475.2100303	
593.7057292	823.3877496		799.6906484	466.2528359	
738.9280424	-0.663775951		0.000897215	0.00981096	
B4GALT7	5	177600100	177610347	+ 4927	
protein_coding	"beta-1,4-galactosyltransferase 7 [Source:HGNC				
Symbol;Acc:HGNC:930]"			-	360 547 486 591	901
815	3.995900368		4.894842498	4.569368283	
5.799708088	7.968944945		7.721845044		

ENSG00000130772	636.3289216	618.2764109	510.4107732		
803.6625776	874.5639027	995.9337523	588.3387019		
891.3867442	-0.599836501	0.000900764	0.009839618	MED18	
1	28329002	28335967	+ 2019		
protein_coding	mediator complex subunit 18 [Source:HGNC				
Symbol;Acc:HGNC:25944]	-	550	667	522	800
1015	14.89776376	14.56543545	11.97668535	957	
19.15820802	20.65542886	23.46798269			
ENSG00000055483	1898.57411	2139.403233	2072.932642		
3328.16765	2473.818688	2814.12611	2036.969995		
2872.037483	-0.495297748	0.000901123	0.009839618	USP36	
17	78787381	78841441	- 9235		
protein_coding	ubiquitin specific peptidase 36 [Source:HGNC				
Symbol;Acc:HGNC:20062]	-	1641	2308	2120	3313
2868	9.717765033	11.01876352	10.63411658	2707	
17.34545724	12.77350122	14.49733862			
ENSG00000136861	1545.700799	1550.789259	1963.41922		
1268.782294	955.8974318	1196.101718	1686.636426		
1140.260481	0.565205375	0.000904759	0.009872272		
CDK5RAP2	9	120388869	120580170	-	10080
protein_coding	CDK5 regulatory subunit associated protein 2				
[Source:HGNC Symbol;Acc:HGNC:18672]	-		1336	1673	2008
1263	1046	1219	7.248374749	7.317611807	
9.227958488	6.058205974	4.521991588	5.645328381		
ENSG00000185105	0	4.634755704	0	47.21517644	
20.1049173	16.68066383	1.544918568			
28.00025252	-4.121085697	0.000910005	0.009922427		
MYADML2	17	81939645	81947233	-	2452
protein_coding	myeloid associated differentiation marker like 2				
[Source:HGNC Symbol;Acc:HGNC:34548]	-	0	5	0	
47	22	17	0	0.089904928	0
0.926784173	0.390985645	0.323649165			
ENSG00000189423	46.27846703	13.90426711	60.6235018	0	
3.65543951	8.830939675	40.26874531	4.162126395		
3.270957398	0.000919206	0.010015606	USP32P3	17	
20415547	20431008	+ 2935			
transcribed_unprocessed_pseudogene	ubiquitin specific peptidase				
32 pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:43576]	-			40	
15	62	0	4	9	0.745326561
0.225329011	0.978556801	0	0.059389611	0.143146403	
ENSG00000126461	3168.91803	5331.822962	5196.020783		
7036.065867	6434.487397	7059.845663	4565.587258		
6843.466309	-0.583614636	0.000921321	0.010031505	SCAF1	
19	49642125	49658642	+ 4548		
protein_coding	SR-related CTD associated factor 1 [Source:HGNC				
Symbol;Acc:HGNC:30403]	-	2739	5752	5314	7004
7195	32.9356538	55.76123441	54.12570297	7041	
74.46066283	67.46406194	73.85099961			
ENSG00000103245	524.1036391	752.6843264	685.4366897		
863.9372709	1116.73677	1072.468563	654.0748851		

1017.714201	-0.636810821	0.000929271	0.010110867	CIA03
16	729753 741329	- 8101	protein_coding	
cytosolic iron-sulfur assembly component 3 [Source:HGNC				
Symbol;Acc:HGNC:14179]	-	453 812	701 860	1222
1093	3.058118307	4.419278334	4.008499572	
5.132879107	6.573416816	6.298361237		
ENSG00000143494	267.2581471	288.2818048	387.2081728	
194.8881751	162.6670582	154.0508366	314.2493749	
170.5353566	0.882868987	0.00093121	0.010124757	VASH2
1	212950520	212992037	+ 9086	
protein_coding	vasohibin 2 [Source:HGNC Symbol;Acc:HGNC:25723]			-
231	311 396	194 178	157 1.390381435	
1.509112494	2.018946958	1.03235773	0.853701152	
0.806627373				
ENSG00000135111	1243.733801	1046.527838	1639.767944	
890.0563047	724.6908828	909.5867865	1310.009861	
841.444658	0.638846725	0.000932913	0.010136058	TBX3
12	114670254	114684164	- 5950	
protein_coding	T-box 3 [Source:HGNC Symbol;Acc:HGNC:11602]			T-box
1075	1129 1677	886 793	927 9.880665826	
8.365866581	13.05625287	7.19975922	5.807842352	
7.272919896				
ENSG00000135334	1178.943948	1208.744288	1118.601388	
1596.274795	2106.447017	1461.029908	1168.763208	
1721.250574	-0.558700705	0.000935046	0.010152027	
AKIRIN2 6	87675072	87702209	- 1999	
protein_coding	akirin 2 [Source:HGNC Symbol;Acc:HGNC:21407]			-
1019	1304 1144	1589 2305	1489 27.87764623	
28.76065386	26.51036371	38.43371095	50.24776316	
34.77186137				
ENSG00000087589	19.66834849	12.05036483	6.844588913	0
0	0 12.85443408	0	6.174739526	
0.000936773	1 CASS4	20 56412112	56460387	
+	5069	protein_coding	Cas scaffold protein family	
member 4 [Source:HGNC Symbol;Acc:HGNC:15878]	-	17	13	
7	0 0	0 0.183409296	0.113071986	
0.063970273	0	0	0	
ENSG00000278540	2529.118223	2571.362465	3788.968863	
2401.946529	1501.471779	1736.751469	2963.14985	
1880.056592	0.656646826	0.000943159	0.010232835	ACACA
17	37084988	37406818	- 13008	
protein_coding	acetyl-CoA carboxylase alpha [Source:HGNC			
Symbol;Acc:HGNC:84]	-	2186 2774	3875 2391	1643
1770	9.190398481	9.402208689	13.79950901	
8.887308674	5.504091347	6.351974909		
ENSG00000129675	2006.171546	1476.633167	1614.345185	
971.4271407	1155.118885	1297.166917	1699.049966	
1141.237647	0.573533866	0.000943956	0.010234223	
ARHGEF6 X	136665547	136782088	- 6434	
protein_coding	Rac/Cdc42 guanine nucleotide exchange factor 6			

[Source:HGNC Symbol;Acc:HGNC:685]	-	1734	1593	1651
967	1264	1322	14.73882116	10.91612945
11.88689626	7.266857334	8.561002328	9.591718719	
ENSG00000152620	1541.072952	1343.152203	1315.13887	
769.5069181	1048.197279	1017.520494	1399.788008	
945.0748971	0.566098839	0.000944638	0.010234356	NADK2
5	36192592	36242279	-	4885
protein_coding	"NAD kinase 2, mitochondrial	[Source:HGNC		
Symbol;Acc:HGNC:26404]"	-	1332	1449	1345
1037	14.91194762	13.07789287	12.75440408	1147
7.581679439	10.23192734	9.909693543		
ENSG00000104976	671.0377719	997.3994276	898.5967445	
1252.709043	1222.744516	1409.025486	855.6779813	
1294.826348	-0.596457764	0.000946113	0.010243079	SNAPC2
19	7920316	7923250	+	2000
nuclear RNA activating complex polypeptide 2	[Source:HGNC			
Symbol;Acc:HGNC:11135]"	-	580	1076	919
1436	15.85961757	23.7200846	21.2857017	1338
30.14655389	29.1530982	33.51741217		
ENSG00000198774	150.4050178	196.5136419	117.3358099	
59.2701151	72.19493032	69.66630188	154.7514899	
67.04378243	1.20684661	0.000948281	0.010259284	RASSF9
12	85800697	85836570	-	5682
protein_coding	Ras association domain family member 9	[Source:HGNC		
Symbol;Acc:HGNC:15739]"	-	130	212	120
71	1.251229098	1.645010179	0.97832347	59
0.502055812	0.605876991	0.583315014		79
ENSG00000113552	1688.007085	1497.953044	1168.469107	
2092.536436	2301.099171	1956.543746	1451.476412	
2116.726451	-0.544847023	0.000953446	0.010307874	GNPDA1
5	141991749	142013041	-	3961
protein_coding	glucosamine-6-phosphate deaminase 1	[Source:HGNC		
Symbol;Acc:HGNC:4417]"	-	1459	1616	1195
1994	20.14397446	17.98748613	13.97544092	2083
25.42644503	27.70189515	23.49991803		2518
ENSG00000124104	333.2049626	420.8358179	430.2313031	
541.4676617	625.0801562	749.6486569	394.7573612	
638.7321582	-0.693122024	0.000954861	0.010315878	SNX21
20	45833810	45843275	+	4066
protein_coding	sorting nexin family member 21	[Source:HGNC		
Symbol;Acc:HGNC:16154]"	-	288	454	440
764	3.873645079	4.922916126	5.012885189	539
6.409477206	7.330731704	8.771462684		684
ENSG00000204131	2.313923351	3.707804563	39.11193665	0
0	0	15.04455485	0	6.406133885
0.000957438	1	NHSL2	X	71910818
+	17706	protein_coding	NHS like 2	72161750
Symbol;Acc:HGNC:33737]"	-	2	4	40
0	0.006177379	0.009960325	0.104650664	0
0	0			0

ENSG0000068697	2652.913122	2400.803455	2445.473839		
1668.604427	1949.263119	1872.159211	2499.730139		
1830.008919	0.449607601	0.000959142	0.010354801		
LAPTM4A 2	20032650	20052028	-	1946	
protein_coding	lysosomal protein transmembrane 4 alpha [Source:HGNC Symbol;Acc:HGNC:6924]	-	2293 2590	2501 1661	2133
1908	64.44005932	58.68010552	59.53513073		
41.26938652	47.76465192	45.77006933			
ENSG00000119471	1058.619933	1055.797349	1037.44412		
695.1681296	776.7808958	736.8928551	1050.620467		
736.2806269	0.512697944	0.00096464	0.010406815		HSDL2
9	112379937	112472410	+	3455	
protein_coding	hydroxysteroid dehydrogenase like 2 [Source:HGNC Symbol;Acc:HGNC:18572]	-	915 1139	1061 692	850
751	14.48330762	14.53481908	14.22557363		
9.684099862	10.72085622	10.14700609			
ENSG00000204619	1156.961676	1235.625871	1060.911282		
1562.119135	1838.686073	1505.184607	1151.166276		
1635.329938	-0.50658064	0.000965439	0.010408084		
PPP1R11 6	30066709	30070333	+	2538	
protein_coding	protein phosphatase 1 regulatory inhibitor subunit 11 [Source:HGNC Symbol;Acc:HGNC:9285]	-	1000 1333	1085	
1555	2012 1534	21.54780789	23.15647714		
19.80343723	29.62374714	34.54577629	28.21498201		
ENSG00000162636	2269.958808	2237.660054	2175.601476		
1710.796712	1697.951652	1504.203391	2227.740113		
1637.650585	0.443868486	0.000974315	0.010493074		
FAM102B 1	108560089	108644900	+	9355	
protein_coding	family with sequence similarity 102 member B [Source:HGNC Symbol;Acc:HGNC:27637]	-	1962 2414	2225	
1703	1858 1533	11.46964362	11.37699145		
11.01764258	8.801811686	8.654869334	7.649699915		
ENSG00000123374	1257.617342	1227.28331	1421.718897		
699.1864425	1069.216057	783.9912001	1302.206516		
850.7978997	0.613634271	0.000974695	0.010493074		CDK2
12	55966769	55972784	+	3894	
protein_coding	cyclin dependent kinase 2 [Source:HGNC Symbol;Acc:HGNC:1771]	-	1087 1324	1454 696	1170
799	15.26610727	14.99084093	17.29700517		
8.642004914	13.09328172	9.578485981			
ENSG00000162396	252.2176453	317.0172902	275.7391534		
566.5821172	475.2071363	387.5801302	281.6580296		
476.4564612	-0.757179189	0.00099412	0.010694658		PARS2
1	54756898	54764514	-	2347	
protein_coding	"prolyl-tRNA synthetase 2, mitochondrial [Source:HGNC Symbol;Acc:HGNC:30563]"	-	218 342	282 564	520
395	5.079700614	6.424613034	5.565939412		
11.61895931	9.654923828	7.85651677			
ENSG00000119203	2621.675157	2113.448601	2343.782804		
1578.192387	1831.375194	1673.953676	2359.635521		

1694.507086	0.477226491	0.000995815	0.010705361	CPSF3
2	9423568	9473101 +	3769	protein_coding
cleavage and polyadenylation specific factor 3 [Source:HGNC				
Symbol;Acc:HGNC:2326]	-	2266	2280	2397 1571 2004
1706	32.87974804	26.67120685	29.46078756	
20.1535364	23.17022107	21.12997218		
ENSG00000176054	3.470885027	19.46597396	16.62257307	0
0	0	13.18647735	0	6.217412469
0.000996097	1	RPL23P2	21	28997613 28998033
-	421	processed_pseudogene		ribosomal protein L23
pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:10324]				
21	17	0	0	0.38970311
2.199232561	1.870549827	0	0	0
ENSG00000136960	143.4632478	123.2845017	177.9593117	
51.23348932	43.86527412	85.36575019	148.2356871	
60.15483788	1.302068221	0.000997198	0.010712698	ENPP2
8	119557086	119673453	-	6729
protein_coding ectonucleotide pyrophosphatase/phosphodiesterase 2				
[Source:HGNC Symbol;Acc:HGNC:3357]				
51	48	87	1.007780312	0.871435144
1.252919924	0.366455179	0.31084888	0.603552093	
ENSG00000117597	2929.426963	2753.044888	2244.047365	
4126.807336	3654.52565	3344.963706	2642.173072	
3708.765564	-0.489381302	0.00100396	0.01077777	UTP25
1	209828007	209857565	+	10376
protein_coding "UTP25, small subunit processor component [Source:HGNC				
Symbol;Acc:HGNC:28440]"				
3409	13.34530338	12.62003165	10.24601961	
19.14263367	16.79500118	15.33709381		
ENSG00000105137	2210.953762	3096.943762	3094.731987	
3819.4064	3960.668709	4145.63557	2800.876504	
3975.236893	-0.504733875	0.001009397	0.010828523	SYDE1
19	15107403	15114988	+	3965
protein_coding synapse defective Rho GTPase homolog 1 [Source:HGNC				
Symbol;Acc:HGNC:25824]				
4225	26.3579851	37.15072059	36.97711113	
46.36285133	47.63260276	49.74272321		
ENSG00000116489	10588.51326	7964.364202	7856.610274	
5919.979462	7102.518967	5650.820177	8803.162577	
6224.439535	0.499893404	0.001011189	0.010840145	CAPZA1
1	112619173	112671619	+	4130
protein_coding capping actin protein of muscle Z-line subunit alpha 1				
[Source:HGNC Symbol;Acc:HGNC:1488]				
5893	7772	5759	121.1882942	91.72298391
90.12354893	68.99023209	82.00518978	65.09431523	
ENSG00000144655	461.6277086	588.6139744	501.6105875	
646.948375	832.5263483	1015.558063	517.2840902	
831.6775953	-0.684396407	0.001016067	0.010884804	CSRNP1
3	39141855	39154562	-	3214
protein_coding cysteine and serine rich nuclear protein 1				

[Source:HGNC Symbol;Acc:HGNC:14300]	-	399	635	513
644	911	1035	6.789248984	8.710875584
7.3939064	9.688157967	12.35182421	15.03282193	
ENSG00000136770	643.2706917	647.0118963	674.6809072	
424.9365879	450.5329196	434.6784751	654.9878317	
436.7159942	0.584724581	0.001018669	0.010905042	DNAJC1
10	21756537	22003769	-	2501
protein_coding	DnaJ heat shock protein family (Hsp40) member C1			
[Source:HGNC Symbol;Acc:HGNC:20090]	MYB	556	698	690
423	493	443	12.15782289	12.30483201
12.78020602	8.177638196	8.589973525	8.268677818	
ENSG00000137507	64.78985384	12.97731597	54.75671131	
11.05036044	2.741579632	0	44.17462704	4.597313358
3.270049473	0.001020158	0.010913336	LRRRC32	11
76657524	76670747	-	4459	protein_coding
leucine rich repeat containing 32	[Source:HGNC			
Symbol;Acc:HGNC:4161]	-	56	14	56
0	0.686823691	0.138428184	0.581772261	11
0.119276924	0.029318543	0		3
ENSG00000186197	1.156961676	25.95463194	15.64477466	0
0	0	14.25212276	0	6.330053659
0.001021707	1	EDARADD 1	236348257	236502915
+	3985	protein_coding	EDAR associated death domain	
[Source:HGNC Symbol;Acc:HGNC:14341]	-	1	28	16
0	0	0	0.013723547	0.309787339
0.185991935	0	0	0	
ENSG00000114166	372.5416596	443.0826453	404.8085443	
225.0255217	257.7084854	256.0972506	406.8109497	
246.2770859	0.724467972	0.001022757	0.010933483	KAT2B
3	20040023	20154404	+	5634
protein_coding	lysine acetyltransferase 2B [Source:HGNC			
Symbol;Acc:HGNC:8638]	-	322	478	414
261	3.125602473	3.740632234	3.403971806	224
1.922349691	2.181176769	2.162567642		282
ENSG00000100442	833.0124065	743.414815	694.2368755	
501.2845328	477.9487159	534.7624581	756.8880323	
504.6652356	0.584363392	0.001030616	0.010992586	FKBP3
14	45115600	45135319	-	2262
protein_coding	FK506 binding protein 3 [Source:HGNC			
Symbol;Acc:HGNC:3719]	-	720	802	710
545	17.40742804	15.63204245	14.54012714	499
10.66618622	10.07552502	11.24734295		523
ENSG00000110955	11636.72053	11909.46826	13542.50806	
8859.37534	9660.412764	9681.653531	12362.89895	
9400.480545	0.395227097	0.001031356	0.010992586	
ATP5F1B 12	56638175	56646068	-	2322
protein_coding	ATP synthase F1 subunit beta [Source:HGNC			
Symbol;Acc:HGNC:830]	-	10058	12848	13850
9867	236.8885822	243.953622	276.3058079	8819
183.6362196	198.3866551	198.3667823		10571

ENSG00000176136	2.313923351	28.73548537	22.48936357	
98.44866576	56.6593124	90.27182779	17.84625743	
81.79326865	-2.181423572	0.001031411	0.010992586	MC5R
18	13824149	13827323	+ 1906	
protein_coding	melanocortin 5 receptor [Source:HGNC			
Symbol;Acc:HGNC:6933]	-	2 31	23 98	62
92	0.057385453	0.717088496	0.558994321	
2.486018727	1.417514111	2.253258235		
ENSG00000111863	506.749214	715.6062807	292.3617264	
766.4931834	996.1072664	992.0088902	504.9057404	
918.2031133	-0.862509484	0.001031465	0.010992586	ADTRP
6	11712054	11807046	- 4150	
protein_coding	androgen dependent TFPI regulating protein			
[Source:HGNC Symbol;Acc:HGNC:21214]	-	438	772	299
763	1090 1011	5.771925628	8.201686438	
3.337532838	8.889506621	11.44555875	11.37232061	
ENSG00000078902	1153.490791	1169.81234	1027.666135	
1465.679626	1710.745691	1528.733779	1116.989755	
1568.386365	-0.489902896	0.001031881	0.010992586	TOLLIP
11	1274371 1309654	- 5983	protein_coding	toll
interacting protein [Source:HGNC Symbol;Acc:HGNC:16476]	-			997
1262	1051 1459	1872 1558	9.113199302	
9.299815016	8.137409451	11.79064342	13.63469537	
12.15610622				
ENSG00000081760	608.5618414	490.3571535	731.3932153	
311.4192488	388.3904479	409.1668716	610.1040701	
369.6588561	0.722381136	0.001038809	0.011058689	AACS
12	125065379	125143333	+ 16094	
protein_coding	acetoacetyl-CoA synthetase [Source:HGNC			
Symbol;Acc:HGNC:21298]	-	526 529	748 310	425
417	1.787378213	1.449191016	2.152980303	
0.931319965	1.150756749	1.209534036		
ENSG00000198393	885.0756819	860.2106587	869.262792	
1295.905906	1241.935573	1142.134865	871.5163775	
1226.658781	-0.493237723	0.001044155	0.01110303	ZNF26
12	132986365	133032952	+ 20863	
protein_coding	zinc finger protein 26 [Source:HGNC			
Symbol;Acc:HGNC:13053]	zf-C2H2	765 928	889 1290	1359
1164	2.005300166	1.961124549	1.973910507	
2.989607461	2.838581032	2.604487384		
ENSG00000155090	3223.295229	2595.463194	2303.693068	
3936.942052	4567.471667	3313.564809	2707.48383	
3939.326176	-0.54138932	0.001044427	0.01110303	KLF10
8	102648779	102655902	- 4003	
protein_coding	Kruppel like factor 10 [Source:HGNC			
Symbol;Acc:HGNC:11810]	zf-C2H2	2786 2800	2356 3919	4998
3377	38.06187991	30.83943403	27.26416189	
47.33592737	54.40881402	39.38143221		
ENSG00000100485	962.5921142	747.1226195	810.594887	
581.6507906	593.0950604	461.1712942	840.1032069	

545.305715	0.622649248	0.001045252	0.011104073	SOS2
14	50117120	50231558	- 6938	
protein_coding	SOS Ras/Rho guanine nucleotide exchange factor 2			
[Source:HGNC Symbol;Acc:HGNC:11188]	-	832	806	829
579	649	470	6.558186208	5.121942566
5.535064561	4.035018077	4.076326845	3.16234755	
ENSG00000155368	1258.774303	1268.996112	1611.41179	
821.7449856	786.8333545	1110.735968	1379.727402	
906.4381027	0.606410826	0.00104611	0.011105475	DBI
2	119366921	119372560	+ 2509	
protein_coding	"diazepam binding inhibitor, acyl-CoA binding protein			
[Source:HGNC Symbol;Acc:HGNC:2690]"	-	1088	1369	1648
818	861	1132	23.71499005	24.05673836
30.42699071	15.76354384	14.9541278	21.06162138	
ENSG00000175455	4539.917616	3728.197488	3775.279685	
3244.787657	2399.796038	2887.717274	4014.46493	
2844.100323	0.497179808	0.001047454	0.011107663	CCDC14
3	123897305	123961408	- 11423	
protein_coding	coiled-coil domain containing 14 [Source:HGNC			
Symbol;Acc:HGNC:25766]	-	3924	4022	3861 3230 2626
2943	18.78639868	15.52372167	15.65748775	
13.6717328	10.01781812	12.02696705		
ENSG00000126368	315.8505375	418.0549645	271.8279597	
530.4173012	543.7466271	585.7856651	335.2444872	
553.3165311	-0.721961614	0.001047769	0.011107663	NR1D1
17	40092787	40100725	- 2772	
protein_coding	nuclear receptor subfamily 1 group D member 1			
[Source:HGNC Symbol;Acc:HGNC:7962]		THR-like	273	451
278	528	595	597	5.385972527 7.173271586
4.64573064	9.209624284	9.353676326	10.05372822	
ENSG00000145425	22241.43125	18361.0482	18491.14585	
23071.14345	29164.01027	28326.71083	19697.8751	
26853.95485	-0.447155159	0.001048624	0.011109016	RPS3A
4	151099573	151104652	+ 2341	
protein_coding	ribosomal protein S3A [Source:HGNC			
Symbol;Acc:HGNC:10421]	-	19224	19808	18911 22966 31913
28869	449.0937973	373.0552633	374.2101273	
474.3349912	594.0524841	575.6736652		
ENSG00000165525	904.7440304	746.1956684	781.2609345	
590.6919945	519.0724104	512.1945012	810.7335444	
540.6529687	0.584062138	0.001050895	0.011125367	NEMF
14	49782083	49853203	- 9426	
protein_coding	nuclear export mediator factor [Source:HGNC			
Symbol;Acc:HGNC:10663]	-	782	805	799 588 568
522	4.537054858	3.765324437	3.92664645	
3.016137297	2.62590795	2.585169976		
ENSG00000134815	1081.759167	1445.116829	1187.047277	
1996.096927	1613.876544	1776.981306	1237.974424	
1795.651592	-0.535772822	0.001052841	0.011138254	DHX34
19	47349281	47382704	+ 5696	

protein_coding	DExH-box helicase 34 [Source:HGNC				
Symbol;Acc:HGNC:16719]	-	935	1559	1214	1987
1811	8.977105787	12.06729952	9.873046033		1766
16.86666049	13.51074559	14.84207102			
ENSG00000148737	365.5998895	363.3648472	471.2988366		
253.1537119	199.2214533	248.2475264	400.0878578		
233.5408972	0.777553542	0.001059072	0.011189527		TCF7L2
10	112950250	113167678	+	6736	
protein_coding	transcription factor 7 like 2 [Source:HGNC				
Symbol;Acc:HGNC:11641]	HMG	316	392	482	252
253	2.565545474	2.565771321	3.314724326		218
1.808838024	1.410304894	1.753333289			
ENSG00000128512	1196.298373	1178.1549	1017.888151		
1798.195017	1496.902479	1522.846486	1130.780475		
1605.981328	-0.506207461	0.001059151	0.011189527		DOCK4
7	111726110	112206411	-	11499	
protein_coding	dedicator of cytokinesis 4 [Source:HGNC				
Symbol;Acc:HGNC:19192]	-	1034	1271	1041	1790
1552	4.917622391	4.873258338	4.193658977		1638
7.526519194	6.207438439	6.300538632			
ENSG00000137310	2650.599199	2547.261735	2990.107557		
1879.565853	1912.708723	2180.260884	2729.32283		
1990.845154	0.455207355	0.001060563	0.011196701		TCF19
6	31158542	31167159	+	3538	
protein_coding	transcription factor 19 [Source:HGNC				
Symbol;Acc:HGNC:11629]	Others	2291	2748	3058	1871
2222	35.41293916	34.24465993	40.03889731		2093
25.56920207	25.77923334	29.31785968			
ENSG00000196502	10.41265508	14.83121825	11.73358099		0
0	0	12.32581811	0	6.11747485	
0.001062433	1	SULT1A1 16	28605196	28623625	
-	8909	protein_coding	sulfotransferase family 1A		
member 1 [Source:HGNC	Symbol;Acc:HGNC:11453]	-	9	16	
12	0	0	0.055246944	0.079181729	
0.062395712	0	0	0		
ENSG00000096063	3536.831843	2935.654263	3500.51833		
2434.093032	2567.032396	2334.311721	3324.334812		
2445.145716	0.442902303	0.001063687	0.011221939		SRPK1
6	35832966	35921342	-	6692	
protein_coding	SRSF protein kinase 1 [Source:HGNC				
Symbol;Acc:HGNC:11305]	-	3057	3167	3580	2423
2379	24.98240354	20.86536994	24.78161184		2809
17.50647461	18.2917141	16.59527852			
ENSG00000176046	947.5516124	1152.200268	860.4626062		
1226.590009	1585.546887	1602.324943	986.7381622		
1471.48728	-0.576331778	0.001066907	0.011248146		NUPR1
16	28532708	28539174	-	5674	
protein_coding	"nuclear protein 1, transcriptional regulator				
[Source:HGNC	Symbol;Acc:HGNC:29990]"	-	819	1243	880
1221	1735	1633	7.893857515	9.658635017	

7.184487549	10.40465176	13.32504687	13.43516143	
ENSG00000112658	1485.538792	2523.161005	2413.206491	
3184.512964	3023.962334	3563.774767	2140.635429	
3257.416688	-0.605084552	0.001073767	0.011312669	SRF
6	43171299	43181507	+ 4202	
protein_coding	serum response factor [Source:HGNC			
Symbol;Acc:HGNC:11291]	SRF	1284 2722	2468 3170	3309
3632	16.71104807	28.56051477	27.20768326	
36.47576681	34.31621	40.34928354		
ENSG00000165891	3453.530602	2888.379755	2582.365617	
4625.078134	4058.451716	3808.097431	2974.758658	
4163.87576	-0.485430137	0.001077217	0.011338396	E2F7
12	77021247	77065580	- 6303	
protein_coding	E2F transcription factor 7 [Source:HGNC			
Symbol;Acc:HGNC:23820]	E2F	2985 3116	2641 4604	4441
3881	25.89952154	21.7963664	19.40991126	
35.31744067	30.70379543	28.74368014		
ENSG00000172469	575.0099528	454.206059	483.0324176	
211.9660048	348.1806133	315.9513973	504.0828098	
292.0326718	0.786075385	0.001077693	0.011338396	MANEA
6	95577543	95609457	+ 5187	
protein_coding	mannosidase endo-alpha [Source:HGNC			
Symbol;Acc:HGNC:21072]	-	497 490	494 211	381
322	5.240043032	4.164988341	4.411772982	
1.966832717	3.200864762	2.897915111		
ENSG00000174332	45.12150535	45.4206059	51.82331606	
13.05951689	5.483159264	11.77458623	47.45514244	
10.10575413	2.236440457	0.001078667	0.011340842	GLIS1
1	53506237	53738106	- 3113	
protein_coding	GLIS family zinc finger 1 [Source:HGNC			
Symbol;Acc:HGNC:29525]	zf-C2H2	39 49	53 13	6
12	0.685141382	0.693986332	0.788677053	
0.201913542	0.083990608	0.179948471		
ENSG00000172985	283.4556106	359.6570426	710.8594485	
268.2223853	155.3561792	220.7734919	451.3240339	
214.7840188	1.072753186	0.00108098	0.011355246	SH3RF3
2	109129348	109504632	+ 5803	
protein_coding	SH3 domain containing ring finger 3 [Source:HGNC			
Symbol;Acc:HGNC:24699]	-	245 388	727 267	170
225	2.308916496	2.947902484	5.803423929	
2.224640848	1.276600319	1.8099892		
ENSG00000072840	894.3313753	1004.815037	996.3765861	
1391.340838	1301.336465	1357.021063	965.1743327	
1349.899455	-0.483444573	0.001081523	0.011355246	EVC
4	5711197 5814305	+ 7148	protein_coding	EvC
ciliary complex	subunit 1 [Source:HGNC Symbol;Acc:HGNC:3497]			
773	1084 1019	1385 1424	1383 5.914113607	-
6.686189733	6.603772387	9.368422017	8.681285584	
9.031994659				
ENSG00000204209	2721.173861	3007.029501	2922.639466	

3771.186645	3904.923256	3739.412345	2883.614276	
3805.174082	-0.399919271	0.001084683	0.011380612	DAXX
6	33318558	33323016	- 3084	
protein_coding	death domain associated protein	[Source:HGNC		
Symbol;Acc:HGNC:2681]	-	2352 3244	2989 3754	4273
3811	41.70783634	46.37676317	44.89665667	
58.85469527	60.3777773	57.68602518		
ENSG00000080546	226.7644884	159.4355962	169.159126	
84.38457065	69.45335068	104.9900606	185.1197369	
86.27599397	1.100709403	0.001087234	0.011398975	SESN1
6	108986437	109094819	- 5121	
protein_coding	sestrin 1 [Source:HGNC	Symbol;Acc:HGNC:21595]	-	
196	172 173	84 76	107 2.093129065	
1.480838268	1.564925917	0.79309594	0.646721671	
0.975382676				
ENSG00000089820	55.53416043	143.6774268	77.24607488	
247.1262426	285.1242818	145.2198969	92.15255405	
225.8234738	-1.28893761	0.001087925	0.011398975	
ARHGAP4 X	153907367	153934999	- 5580	
protein_coding	Rho GTPase activating protein 4	[Source:HGNC		
Symbol;Acc:HGNC:674]	-	48 155	79 246	312
148	0.470437303	1.224704905	0.655836145	
2.131582395	2.436570562	1.238150828		
ENSG00000161036	887.3896053	1330.174887	1201.714253	
1597.279373	1718.970429	1736.751469	1139.759582	
1684.333757	-0.562542882	0.001089656	0.011409297	LRWD1
7	102464929	102473168	+ 5926	
protein_coding	leucine rich repeats and WD repeat domain containing 1	[Source:HGNC		
Symbol;Acc:HGNC:21769]	-	767 1435	1229	
1590	1881 1770	7.078291266	10.67638464	
9.607108412	12.97288875	13.83202439	13.94304584	
ENSG00000169403	16.19746346	18.53902282	3.911193665	0
0	0 12.88255998	0	6.179717165	
0.001089954	1	PTAFR 1	28147166 28193936	
-	4706	protein_coding	platelet activating factor	
receptor [Source:HGNC	Symbol;Acc:HGNC:9582]	-	14 20	
4	0 0	0	0.162693734 0.187375166	
0.03937409	0	0	0	
ENSG00000139921	2698.034628	2444.370158	2202.002033	
1438.556014	1973.023475	1718.108375	2448.135606	
1709.895955	0.517357046	0.001094125	0.011441707	TMX1
14	51240162	51257546	+ 4499	
protein_coding	thioredoxin related transmembrane protein 1	[Source:HGNC		
Symbol;Acc:HGNC:15487]	-	2332 2637	2252	
1432	2159 1751	28.34701057	25.84211737	
23.18754922	15.38963222	20.91198443	18.16837933	
ENSG00000206527	2768.60929	2505.548934	2681.123257	
1691.709726	2087.25596	2008.548168	2651.760494	
1929.171285	0.458685691	0.001094248	0.011441707	HACD2
3	123490820	123585185	- 5351	

protein_coding	3-hydroxyacyl-CoA dehydratase 2 [Source:HGNC					
Symbol;Acc:HGNC:9640]	-	2393	2703	2742	1684	2284
	2047	24.45695928	22.27127357	23.73749877		
15.21627514		18.60029132	17.85784			
ENSG00000147408		84.45820233	115.8688926	194.5818848		
14.06409511		42.03755436	63.77900877	131.6363266		
39.96021941		1.71994896	0.001095478	0.011446735		
CSGALNACT1	8	19404161	19758029	-		6580
protein_coding	chondroitin sulfate N-					
acetylgalactosaminyltransferase 1 [Source:HGNC	Symbol;Acc:HGNC:24290]					
	-	73	125	199	14	46
						65
0.606724705		0.837564145	1.400972591	0.102873463		
0.304642532		0.461140747				
ENSG00000135842		1899.731072	1727.836927	1419.7633		
2587.7935		2217.937922	2334.311721	1682.443766		
2380.014381		-0.500695979	0.001102347	0.011510636		
FAM129A 1		184790724	184974550	-		8372
protein_coding	family with sequence similarity 129 member A					
[Source:HGNC	Symbol;Acc:HGNC:16784]					
	-			1642	1864	1452
	2576	2427	2379	10.72602107	9.816363825	
8.034148458		14.87708538	12.63278644	13.26512229		
ENSG00000115266		404.9365865	573.7827562	882.9519698		
1100.013153		859.9421446	1333.471891	620.5571042		
1097.809063		-0.821873009	0.001104345	0.011523633		APC2
19		1446302	1473244	+	12610	protein_coding "APC2,
WNT signaling pathway regulator [Source:HGNC	Symbol;Acc:HGNC:24036]"					
	-	350	619	903	1095	941
						1359
1.517915761		2.164260436	3.31722645	4.19855889		
3.251869694		5.03095469				
ENSG00000253284		13.88354011	12.05036483	10.75578258		0
	0	0	12.22989584	0	6.104626452	
0.001106924		1	AC092828.1	12	19147074	
19154659		+	5391	sense_intronic	novel transcript	
	-	12	13	11	0	0
0.121732524		0.106318289	0.094520456	0	0	0
ENSG00000210140		342.460656	930.6589454	615.0352038		
1766.048514		1254.729612	1990.886289	629.3849351		
1670.554805		-1.407674378	0.001111988	0.01159547		MT-TC
MT		5761	5826	-	66	Mt_tRNA
mitochondrially encoded tRNA cysteine [Source:HGNC	Symbol;Acc:HGNC:7477]					
	-		296	1004	629	1758
	2029	245.2689028	670.6929407	441.4781009		1373
1287.882232		906.5363009	1435.106552			
ENSG00000114383		674.5086569	888.0191929	904.4635349		
1278.828077		1167.912923	1181.383485	822.3304616		
1209.374828		-0.555403497	0.001117806	0.011648189		TUSC2
3		50320027	50328251	-	2406	
protein_coding	"tumor suppressor 2, mitochondrial calcium regulator					
[Source:HGNC	Symbol;Acc:HGNC:17034]"					
	-			583	958	925
	1273	1278	1204	13.25157944	17.55512168	

17.80937036	25.5819707	23.14695293	23.36021845	
ENSG00000163539	2199.384146	1729.690829	1838.261022	
1478.739143	1334.235421	1263.805589	1922.445332	
1358.926718	0.500085445	0.001119434	0.011653632	CLASP2
3	33496245	33718356	- 15211	
protein_coding	cytoplasmic linker associated protein 2 [Source:HGNC			
Symbol;Acc:HGNC:17078]	-	1901 1866	1880 1472	1460
1288	6.834693811	5.408636953	5.725356562	
4.678980768	4.182670826	3.952793553		
ENSG00000198886	54772.87965	50680.12667	61949.39645	
71006.60247	70533.53306	79598.16537	55800.80093	
73712.76697	-0.401628654	0.001119852	0.011653632	MT-ND4
MT	10760 12137	+ 1378	protein_coding	
mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 4				
[Source:HGNC Symbol;Acc:HGNC:7459]	-		47342 54674	63356
70683	77182 81122	1878.849944	1749.305207	
2129.810621	2480.087326	2440.76186	2748.118575	
ENSG00000158301	591.2074163	675.7473817	496.7215954	
842.8411283	882.7886416	926.2674504	587.8921311	
883.9657401	-0.588233865	0.001135276	0.011806103	
GPRASP2 X	102712176	102717733	+ 3975	
protein_coding	G protein-coupled receptor associated sorting protein			
2 [Source:HGNC Symbol;Acc:HGNC:25169]	-		511 729	508
839	966 944	7.030374822	8.08582529	
5.920099896	10.20530631	10.59006416	11.08615374	
ENSG00000121931	541.4580642	360.5839938	455.6540619	
592.701151	843.4926669	777.1226914	452.5653733	
737.7721698	-0.706728595	0.00113619	0.011807574	LRIF1
1	110947185	110964079	- 3621	
protein_coding	ligand dependent nuclear receptor interacting factor 1			
[Source:HGNC Symbol;Acc:HGNC:30299]	-		468 389	466
590	923 792	7.068252265	4.736472656	
5.961559017	7.878158304	11.10789521	10.2103985	
ENSG00000177426	701.1187755	774.0042026	625.7909863	
1058.825446	1191.67328	892.9061227	700.3046548	
1047.801616	-0.581340031	0.001142745	0.011867625	TGIF1
18	3411608 3459978	+ 8222	protein_coding	TGFB
induced factor homeobox 1 [Source:HGNC Symbol;Acc:HGNC:11776]				
Homeobox	606 835	640 1054	1304 910	
4.030787142	4.477575948	3.605827589	6.198182435	
6.911283638	5.166660864			
ENSG00000196230	42812.20985	39378.73837	47123.03907	
33665.42538	33476.51503	32287.87788	43104.66243	
33143.27276	0.379123664	0.001144552	0.011878325	TUBB
6	30720201	30725426	+ 3359	
protein_coding	tubulin beta class I [Source:HGNC			
Symbol;Acc:HGNC:20778]	-	37004 42482	48193 33512	36632
32906	602.4671632	557.607888	664.6246028	
482.3825178	475.2358825	457.3104498		
ENSG00000109079	1720.402012	1713.932659	1659.323912	

2331.626053	2111.016317	2460.888523	1697.886194	
2301.176964	-0.438578256	0.001148989	0.011916277	
TNFAIP1 17	28335602	28347009	+	3889
protein_coding	TNF alpha induced protein 1 [Source:HGNC			
Symbol;Acc:HGNC:11894]	-	1487 1849	1697 2321	2310
2508	20.91065988	20.9620101	20.21372509	
28.85615179	25.8840741	30.10479158		
ENSG00000179813	226.7644884	284.5740002	118.3136084	
468.1334515	425.8587029	348.3315094	209.8840323	
414.1078879	-0.980258727	0.001162779	0.01205112	
FAM216B 13	42781550	42791549	+	3308
protein_coding	family with sequence similarity 216 member B			
[Source:HGNC Symbol;Acc:HGNC:26883]	-	196 307		121
466	466 355	3.240300466	4.091728721	
1.694424901	6.811168625	6.138736804	5.009667339	
ENSG00000168398	35.86581195	91.76816294	138.8473751	
14.06409511	18.27719755	36.30497422	88.82711666	
22.88208896	1.959497553	0.001166545	0.012081959	BDKRB2
14	96204679	96244166	+	6845
protein_coding	bradykinin receptor B2 [Source:HGNC			
Symbol;Acc:HGNC:1030]	-	31 99	142 14	20
37	0.247675446	0.637669581	0.960986635	
0.098890779	0.127325427	0.252333149		
ENSG00000162086	32.39492692	36.15109449	25.42275882	
121.5539649	92.29984762	63.77900877	31.32292674	
92.54427375	-1.562503194	0.001168074	0.012089605	ZNF75A
16	3305406 3318852	+	8063	protein_coding zinc
finger protein 75a [Source:HGNC	Symbol;Acc:HGNC:13146]			zf-C2H2 28
39	26 121	101 65	0.189913608	
0.213256317	0.149375422	0.725587725	0.545862565	
0.376324707				
ENSG00000171853	601.6200714	663.6970168	657.0805357	
973.4362971	901.979699	896.8309848	640.799208	
924.082327	-0.527576427	0.001172712	0.012129394	
TRAPPC12	2 3379675	3485094 +	9193	protein_coding
	trafficking protein particle complex 12 [Source:HGNC			
Symbol;Acc:HGNC:24284]	-	520 716	672 969	987
914	3.093433585	3.433916418	3.386214529	
5.096449596	4.678627727	4.641250098		
ENSG00000272870	135.3645161	60.25182416	55.73450972	
15.06867333	30.15737595	25.51160351	83.78361664	
23.5792176	1.823504415	0.001174071	0.012131945	
AC097534.2	4 173363780	173370446	-	2495
	antisense uncharacterized LOC105377540 [Source:NCBI			
gene;Acc:105377540]	-	117 65	57 15	33
26	2.564543231	1.148621033	1.058295042	
0.290684534	0.576370823	0.486461902		
ENSG00000175414	1173.159139	1057.651252	1161.624518	
1496.821551	1538.940034	1652.366935	1130.811636	
1562.709506	-0.466972199	0.001174546	0.012131945	ARL10

5	176365468	176401865	+	11459	
protein_coding	ADP ribosylation factor like GTPase 10 [Source:HGNC				
Symbol;Acc:HGNC:22042]	-	1014	1141	1188	1490 1684
1684	4.839337913	4.390084534		4.802553118	
6.286960988	6.404038962	6.86027308			
ENSG00000168542	148.0910945	60.25182416		195.5596832	
64.29300621	7.310879019	30.4176811		134.6342006	
34.00718878	1.988220911	0.001184775		0.012229347	COL3A1
2	188974320	189012746	+	6811	
protein_coding	collagen type III alpha 1 chain [Source:HGNC				
Symbol;Acc:HGNC:2201]	-	128	65	200	64 8
31	1.027764948	0.420761926		1.360258885	
0.454328844	0.05118441	0.212469624			
ENSG00000171552	407.2505099	585.833121		605.2572196	
933.2531683	763.9868575	819.3149588		532.7802835	
838.8516615	-0.653272269	0.001186302		0.01223684	BCL2L1
20	31664452	31723989	-	3314	
protein_coding	BCL2 like 1 [Source:HGNC Symbol;Acc:HGNC:992]				
352	632	619	929	836	835 5.808779247
8.408112854	8.652479933	13.55390466		10.99290237	
11.76196837					
ENSG00000114450	2552.257457	1919.715813		1974.175002	
1358.189756	1538.026174	1608.212236		2148.716091	
1501.476055	0.516546441	0.001188986		0.012241425	GNB4
3	179396089	179451590	-	7035	
protein_coding	G protein subunit beta 4 [Source:HGNC				
Symbol;Acc:HGNC:20731]	-	2206	2071	2019	1352 1683
1639	17.14889412	12.97926068		13.29458157	
9.292098532	10.42506117	10.87579186			
ENSG0000007047	742.7693958	961.2483331		741.1711995	
1031.701834	1172.482223	1636.667486		815.0629761	
1280.283848	-0.650962522	0.001189091		0.012241425	MARK4
19	45079288	45305283	+	6668	
protein_coding	microtubule affinity regulating kinase 4 [Source:HGNC				
Symbol;Acc:HGNC:13538]	-	642	1037	758	1027 1283
1668	5.265433712	6.856731181		5.265941986	
7.446909378	8.384741211	11.67740898			
ENSG00000134056	349.4024261	361.5109449		377.4301886	
220.0026306	209.2739119	228.623216		362.7811865	
219.2999195	0.72662056	0.001189149		0.012241425	MRPS36
5	69217760	69230129	+	1530	
protein_coding	mitochondrial ribosomal protein S36 [Source:HGNC				
Symbol;Acc:HGNC:16631]	-	302	390	386	219 229
233	10.79469124	11.23846854		11.68687314	
6.920761778	6.522328212	7.109032932			
ENSG00000143786	1848.824758	1845.559721		1626.078766	
2501.399773	2527.736421	2222.453152		1773.487748	
2417.196448	-0.446886792	0.001195628		0.012293068	CNIH3
1	224434660	224740549	+	6386	
protein_coding	cornichon family AMPA receptor auxiliary protein 3				

[Source:HGNC Symbol;Acc:HGNC:26802]	-	1598	1991	1663
2490	2766	2265	13.68492979	13.74599887
12.06329062	18.8526172	18.87477831	16.55714027	
ENSG00000145451	2.313923351	6.488657986	2.933395248	
55.25180221	29.24351608	14.71823279	3.911992195	
33.07118369	-3.062076171	0.001195774	0.012293068	GLRA3
4	174636914	174829314	-	9599
protein_coding	glycine receptor alpha 3 [Source:HGNC			
Symbol;Acc:HGNC:4328]	-	2	7	3
15	0.01139459	0.032151853	0.014477638	55
0.277037088	0.145272224	0.07294765		32
ENSG00000197321	1615.118499	1163.323682	1829.460837	
1091.976527	678.9978889	1078.355856	1535.967673	
949.7767574	0.693627947	0.001197866	0.0123063	SVIL
10	29457338	29736781	-	9937
protein_coding	supervillin [Source:HGNC Symbol;Acc:HGNC:11480]	-		
1396	1255	1871	1087	743
5.568297032	8.722097828	5.289023184	3.258307902	
5.162837293				
ENSG00000139350	1189.356603	998.3263787	950.4200605	
683.113191	761.2452779	708.4376051	1046.034347	
717.5986913	0.54289613	0.001204019	0.012361205	NEDD1
12	96907223	96953777	+	4463
protein_coding	"neural precursor cell expressed, developmentally			
down-regulated 1 [Source:HGNC Symbol;Acc:HGNC:7723]"	-			1028
1077	972	680	833	722
10.63953811	10.08885392	7.366874007	8.133485791	
7.551902018				
ENSG00000159147	1007.71362	1065.066861	1100.023218	
776.5389656	776.7808958	641.7149497	1057.601233	
731.6782704	0.531629764	0.001205737	0.01237054	DONSON
21	33559542	33588708	-	3513
protein_coding	downstream neighbor of SON [Source:HGNC			
Symbol;Acc:HGNC:2993]	-	871	1149	1125
654	13.55922033	14.42035118	14.83463375	773
10.63904291	10.54385376	8.690517418		850
ENSG00000222032	236.0201818	184.463277	240.5384104	
123.5631213	74.02265007	123.6331555	220.3406231	
107.0729756	1.041938355	0.001207755	0.012375476	
AC112721.2	2	237428920	237434822	-
lincRNA	novel protein (LOC728009)			541
246	123	81	126	20.6218496
21.06397341	10.99281864	6.52448672	10.87224714	204
ENSG00000070495	1204.397104	1412.673539	1208.558842	199
1686.686835	1921.847322	1721.052021	1275.209828	
1776.528726	-0.478075893	0.001207837	0.012375476	JMJD6
17	76712832	76726799	-	5969
protein_coding	"jumonji domain containing 6, arginine demethylase and			
lysine hydroxylase [Source:HGNC Symbol;Acc:HGNC:19355]"	-			1041
1524	1236	1679	2103	1754
			9.537704511	

11.25686211	9.592224789	13.60035779	15.35310753	
13.71747085				
ENSG00000139329	251.0606836	240.0803455	154.4921498	
81.37083598	137.9928415	66.72265532	215.2110596	
95.36211093	1.171941349	0.001209183	0.012380965	LUM
12	91102629	91111831	- 3008	
protein_coding	lumican [Source:HGNC Symbol;Acc:HGNC:6724]			-
217	259	158	81 151 68	3.945268951
	3.796259486	2.433221867	1.301992263	2.187548614
	1.055302864			
ENSG00000144134	90.24301071	139.9696223	92.89084954	
242.1033515	248.5698867	174.6563625	107.7011608	
221.7765335	-1.039697883	0.001215333	0.012435607	RABL2A
2	113627229	113643396	+ 6008	
protein_coding	"RAB, member of RAS oncogene family like 2A [Source:HGNC Symbol;Acc:HGNC:9799]"			-
241	272	178	0.710001705 1.10810517	78 151 95
0.732480617	1.93949353	1.972865952	1.383044373	
ENSG00000167549	86.77212568	125.138404	282.5837423	
89.40746176	39.29597473	21.58674143	164.831424	
50.09672597	1.720767676	0.001217686	0.012451351	COR06
17	29614756	29622907	- 4321	
protein_coding	coronin 6 [Source:HGNC Symbol;Acc:HGNC:21356]			-
75	135	289	89 43 22	0.949230556
	1.377474158	3.09824696	0.995879877	0.433653431
	0.237675519			
ENSG00000172296	317.0074991	332.7754596	216.09345	
659.0033136	488.0011745	394.4486388	288.6254696	
513.817709	-0.832190229	0.001221714	0.012484187	SPTLC3
20	13008979	13169103	+ 8520	
protein_coding	serine palmitoyltransferase long chain base subunit 3 [Source:HGNC Symbol;Acc:HGNC:16253]			-
656	534	402	1.758756359 1.857756595	274 359 221
1.201586761	3.722763619	2.731242489	2.202584071	
ENSG00000171302	2323.179045	2326.647364	3043.88647	
3666.71051	3507.39421	3489.202387	2564.570959	
3554.435702	-0.470740882	0.001223037	0.012489357	CANT1
17	78991717	79009867	- 4421	
protein_coding	calcium activated nucleotidase 1 [Source:HGNC Symbol;Acc:HGNC:19721]			-
3556	24.83921727	25.03151667	3113 3650	3838
39.91844048	37.83058466	37.54804012	32.61828038	
ENSG00000140575	9071.736499	7171.820977	7856.610274	
5848.654409	5994.920796	6211.094238	8033.38925	
6018.223148	0.416525089	0.00122461	0.012497074	IQGAP1
15	90388218	90502243	+ 11535	
protein_coding	IQ motif containing GTPase activating protein 1 [Source:HGNC Symbol;Acc:HGNC:6110]			-
5822	6560	6330	37.17479375 29.57256234	7841 7737 8035
32.26790265	24.40370794	24.78248422	25.61722879	

ENSG00000280300	19.66834849	7.415609127	9.777984162	0
0	0	12.28731393	0	6.108911906
0.001228025	1	AC117503.4	12	123754246
123754794	-	549	TEC	novel transcript
17	8	10	0	0
0.642468147	0.843781718	0	0	1.693445755
ENSG00000172965	1278.442652	1002.034183	1302.42749	
830.7861896	701.8443859	884.075183	1194.301442	
805.5685862	0.567958915	0.001235632	0.012601143	
MIR4435-2HG	2	111036776	111523376	-
lincRNA	MIR4435-2	host gene	[Source:HGNC	
Symbol;Acc:HGNC:35163]	-	1105	1081	1332
901	4.615137602	3.63988209	4.71231533	827
3.053756395	2.555921323	3.212169767		768
ENSG00000198695	5445.818608	4949.919092	6077.017156	
6562.909524	7256.961287	9496.203797	5490.918285	
7772.024869	-0.50125809	0.00124674	0.012705947	MT-ND6
MT	14149	14673	-	525
mitochondrially	encoded	NADH:ubiquinone	oxidoreductase	core subunit 6
[Source:HGNC	Symbol;Acc:HGNC:7462]	-	4707	5340
6533	7941	9678	490.3199992	448.4519446
548.3833817	601.6647545	659.1351777	860.5425521	
ENSG00000159259	1151.176867	1413.60049	1364.028791	
818.7312509	977.8300688	938.0420366	1309.602049	
911.5344521	0.523058977	0.001248234	0.012710845	CHAF1B
21	36385378	36419015	+	5118
protein_coding	chromatin assembly	factor 1	subunit B	[Source:HGNC
Symbol;Acc:HGNC:1911]	-	995	1525	1395
956	10.63206228	13.13722143	12.62630808	815
7.699429446	9.110497512	8.719742228		1070
ENSG00000100418	924.4123789	1147.565512	1036.466321	
1657.554066	1383.583854	1404.119408	1036.148071	
1481.752443	-0.515326608	0.001248884	0.012710845	DESI1
22	41598028	41621096	-	4972
protein_coding	desumoylating	isopeptidase 1	[Source:HGNC	
Symbol;Acc:HGNC:24577]	-	799	1238	1060
1431	8.788411265	10.97800648	9.875911764	1650
16.04552904	13.26946316	13.43552216		1514
ENSG00000171724	532.2023708	723.0218899	330.4958647	
685.1223474	970.5191898	1226.519399	528.5733751	
960.7203122	-0.86177762	0.001259141	0.01280671	VAT1L
16	77788530	77980107	+	4137
protein_coding	vesicle amine	transport 1	like	[Source:HGNC
Symbol;Acc:HGNC:29315]	-	460	780	338
1250	6.080888266	8.312717847	3.784718954	682
7.970766195	11.18658672	14.10491677		1062
ENSG00000187091	30.08100357	61.1787753	50.84551764	
100.4578222	141.648281	125.5955865	47.36843217	
122.5672299	-1.366149881	0.00126348	0.012842303	PLCD1
3	38007496	38029762	-	4314

protein_coding	phospholipase C delta 1 [Source:HGNC				
Symbol;Acc:HGNC:9060]	-	26	66	52	100
128	0.329600544	0.674524537	0.558374606		155
1.120781815	1.565705781	1.38508321			
ENSG00000140612	2031.624703	1821.458992	1997.642164		
1381.295055	1443.898606	1484.579081	1950.241953		
1436.590914	0.440773848	0.001266584	0.012865291		SEC11A
15	84669538	84716716	-	5748	
protein_coding	"SEC11 homolog A, signal peptidase complex subunit				
[Source:HGNC Symbol;Acc:HGNC:17718]"	-		1756	1965	2043
1375	1580	1513	16.70715358	15.07230776	
16.46470914	11.56610565	11.97840313	12.28763223		
ENSG00000176171	3086.773751	2824.420126	2023.064923		
2979.579007	4417.598647	4814.824554	2644.752933		
4070.667403	-0.622363827	0.001272557	0.012915774		BNIP3
10	131966455	131982013	-	5325	
protein_coding	BCL2 interacting protein 3 [Source:HGNC				
Symbol;Acc:HGNC:1084]	-	2668	3047	2069	2966
4907	27.40065382	25.22823107	17.99879101		4834
26.93101682	39.55902979	43.01723398			
ENSG00000171943	791.3617862	569.1480005	775.394144		
410.8724928	523.6417098	404.260794	711.9679769		
446.2583322	0.672817531	0.001273243	0.012915774		
SRGAP2C 1	121184810	121392822	+	7311	
protein_coding	SLIT-ROBO Rho GTPase activating protein 2C				
[Source:HGNC Symbol;Acc:HGNC:30584]	-		684	614	793
409	573	412	5.116512395	3.702759844	
5.024569517	2.704878367	3.415359592	2.63067058		
ENSG00000101463	122.6379376	109.3802346	128.0915925		
41.1877071	65.79791117	22.56795695	120.0365883		
43.18452507	1.472074958	0.001277782	0.01295322		
SYNDIG1 20	24469199	24666616	+	2847	
protein_coding	synapse differentiation inducing 1 [Source:HGNC				
Symbol;Acc:HGNC:15885]	-	106	118	131	41
23	2.03616567	1.827378446	2.131504649		72
0.696301941	1.102055908	0.377125939			
ENSG00000129932	674.5086569	1047.454789	864.3737999		
1233.622057	1239.193994	1447.292891	862.1124153		
1306.702981	-0.598847011	0.001280461	0.012970207		DOHH
19	3490822	3500940	-	2031	protein_coding
deoxyhypusine hydroxylase [Source:HGNC Symbol;Acc:HGNC:28662]					-
583	1130	884	1228	1356	1475
24.53027845	20.16251936	29.2340954	29.09433023		
33.90221961					
ENSG00000022567	337.8328093	282.720098	243.4718056		
729.3237892	442.3081807	390.5237767	288.0082376		
520.7185822	-0.855060639	0.001281155	0.012970207		
SLC45A4 8	141207166	141308305	-	8608	
protein_coding	solute carrier family 45 member 4 [Source:HGNC				
Symbol;Acc:HGNC:29196]	-	292	305	249	726
					484

	398	1.855134089	1.562181675	1.33998379	
4.077890678		2.450200934	2.158374739		
ENSG00000235033	6.941770054		2.780853423	30.3117509	0
0	0	13.34479146	0	6.2320481	
0.001281778	1	AL590999.1	6	39881804	
39900071	-	6854	antisense	uncharacterized	
LOC100505635	[Source:NCBI gene;Acc:100505635]			-	6 3
31	0	0	0	0.047874237	0.019297947
0.209517378	0	0	0		
ENSG00000136270	3078.675019		3079.33169	2871.793948	
3882.694828	4111.455588		3848.327267	3009.933552	
3947.492561	-0.391284897		0.00128912	0.01304221	TBRG4
7	45100100		45112047	-	5803
protein_coding	transforming growth factor beta regulator 4				
[Source:HGNC Symbol;Acc:HGNC:17443]			-	2661 3322	2937
3865	4499	3922	25.07766039	25.23951559	
23.44519406	32.20313437		33.78485197	31.55012285	
ENSG00000166592	43.96454368		113.0880392	92.89084954	
17.07782977	26.50193645		30.4176811	83.31447747	
24.66581577	1.757940668		0.001290818	0.013050746	RRAD
16	66921679		66925644	-	1709
protein_coding	"RRAD, Ras related glycolysis inhibitor and calcium channel regulator [Source:HGNC Symbol;Acc:HGNC:10446]"			-	38
122	95	17	29	31	1.216007481
3.147398445	2.575040111		0.480959021	0.739459739	
0.846770397					
ENSG00000148541	112.2252825		118.649746	115.3802131	
37.16939421	59.40089203		43.17348286	115.4184139	
46.58125637	1.307361331		0.001294684	0.013081186	FAM13C
10	59246129		59363181	-	6753
protein_coding	family with sequence similarity 13 member C				
[Source:HGNC Symbol;Acc:HGNC:19371]			-	97 128	118
37	65	44	0.785542519	0.835693796	
0.809445687	0.264914781		0.419445177	0.304159904	
ENSG00000179604	1114.154094		1229.137213	1615.322983	
869.9647403	842.578807		952.7602694	1319.538097	
888.4346056	0.571158063		0.001305039	0.0131771	
CDC42EP4	17	73283624	73312175	-	5007
protein_coding	CDC42 effector protein 4 [Source:HGNC Symbol;Acc:HGNC:17147]			-	963 1326 1652 866 922
971	10.51824805		11.67615605	15.28392533	
8.362603716	8.024388141		9.052898984		
ENSG00000142544	425.7618967		987.202965	736.2822074	
1014.624004	1341.5463		1377.626589	716.4156897	
1244.598965	-0.795513116		0.001306887	0.013187046	CTU1
19	51097606		51108370	-	2087
protein_coding	cytosolic thiouridylase subunit 1 [Source:HGNC Symbol;Acc:HGNC:29590]			-	368 1065 753 1010 1468
1404	9.643175758		22.49889126	16.71379161	
23.39915322	30.65223908		31.40441404		

ENSG00000169299	1492.480562	1666.658151	1405.096324		
995.537018	1124.961509	1137.228787	1521.411679		
1085.909105	0.486550222	0.001309218	0.013201859	PGM2	
4	37826633	37862937	+ 3704		
protein_coding	phosphoglucomutase 2 [Source:HGNC				
Symbol;Acc:HGNC:8906]	-	1290 1798	1437 991	1231	
1159	19.04642387	21.4019166	17.97166216		
12.93611575	14.48257121	14.60691472			
ENSG00000184220	1819.900716	1507.222555	1770.792932		
1359.194334	1073.785356	1148.022158	1699.305401		
1193.667283	0.509475629	0.001311495	0.013209471	CMSS1	
3	99817834	100181732	+ 7210		
protein_coding	cms1 ribosomal small subunit homolog (yeast)				
[Source:HGNC Symbol;Acc:HGNC:28666]	-	1573 1626	1811		
1353	1175 1170	11.93131112	9.943041098		
11.63551583	9.073268197	7.101681642	7.575244118		
ENSG00000175581	934.825034	891.7269975	958.2424478		
568.5912737	670.77315	679.0011395	928.2648264		
639.4551877	0.537390579	0.001311701	0.013209471	MRPL48	
11	73787316	73865133	+ 4386		
protein_coding	mitochondrial ribosomal protein L48 [Source:HGNC				
Symbol;Acc:HGNC:16653]	-	808 962	980 566	734	
692	10.07482349	9.670310139	10.35046603		
6.239488956	7.292661076	7.365182337			
ENSG00000271216	233.7062585	363.3648472	200.4486753		
402.835867	664.3761309	423.8851044	265.839927		
497.0323674	-0.901990207	0.001318188	0.013266052		
LINC01050	13 42810366	42812562	-	760	
lincRNA	long intergenic non-protein coding RNA 1050				
[Source:HGNC Symbol;Acc:HGNC:49044]	-	202 392	205		
401	727 432	14.53558416	22.74083634		
12.49518598	25.51126516	41.68496261	26.53482272		
ENSG00000196935	691.8630821	606.2260461	504.5439827		
948.3218416	810.5937113	959.628778	600.8777036		
906.1814436	-0.593401434	0.001319186	0.013267369	SRGAP1	
12	63844293	64162221	+ 26641		
protein_coding	SLIT-ROBO Rho GTPase activating protein 1 [Source:HGNC				
Symbol;Acc:HGNC:17382]	-	598 654	516 944	887	
978	1.227567478	1.082333707	0.897225555		
1.713257684	1.450880671	1.713698309			
ENSG00000139278	1623.217231	1322.759278	1517.543142		
900.1020869	953.1558521	1206.895089	1487.839884		
1020.051009	0.544271426	0.001321477	0.013278557	GLIPR1	
12	75480680	75503853	+ 6273		
protein_coding	GLI pathogenesis related 1 [Source:HGNC				
Symbol;Acc:HGNC:17001]	-	1403 1427	1552 896	1043	
1230	12.23142611	10.02957761	11.46090428		
6.90611711	7.245487618	9.153261285			
ENSG00000227827	9.255693406	11.12341369	16.62257307		
118.5402302	25.58807657	39.24862078	12.33389339		

61.12564252	-2.304001352	0.001322036	0.013278557		
AC138969.1	16	16356224	16377507	+	9932
	unprocessed_pseudogene	polycystic kidney disease 1 (autosomal dominant) (PKD1) pseudogene	-	8	12
	28	40	0.044050211	0.053269484	0.079289315
	0.574442433	0.122851346	0.188004964		
ENSG00000240751	19.66834849	18.53902282	8.800185745	0	
	0.913859877	0	15.66918568	0.304619959	
5.500011328	0.001322453	1	AC026348.1	3	
113360267	113361319	+	1053	processed_pseudogene	
	"Rab geranylgeranyltransferase, beta subunit (RABGGTB) pseudogene"	-	17	20	9
	0.882907616	0.837405063	0.395928345	0	1
0.041383787	0				0
ENSG00000104980	1582.723572	1832.582405	1661.279509		
2236.191122	2233.47354	2399.071945	1692.195162		
2289.578869	-0.435833586	0.001330103	0.013350808		TIMM44
	19	7926718	7943920	-	4888
	translocase of inner mitochondrial membrane 44	[Source:HGNC Symbol;Acc:HGNC:17316]	-	1368	1977
	2445	15.3055737	17.83238492	16.10143701	2444
22.0188777	21.78856368	23.35036653			
ENSG00000146826	254.5315687	322.578997	401.875149		
661.0124701	446.8774801	560.2740616	326.3285716		
556.0546706	-0.767169854	0.001332115	0.013362229		
C7orf43 7	100154420	100158715	-	3255	
	protein_coding	chromosome 7 open reading frame 43	[Source:HGNC Symbol;Acc:HGNC:25604]	-	220
	571	3.696293092	4.713702934	5.849157083	489
9.774085127	6.546609916	8.189005281			
ENSG00000196954	1257.617342	1554.497063	1067.75587		
1570.155761	2199.660725	2051.721651	1293.290092		
1940.512712	-0.58529718	0.001335488	0.013387285		CASP4
	11	104942866	104969436	-	7256
	protein_coding	caspase 4	[Source:HGNC Symbol;Acc:HGNC:1505]	-	
	1087	1677	1092	1563	2407
	10.18989588	6.971525498	10.41508744	14.45564299	
	13.45249362				
ENSG00000184381	76.3594706	95.47596751	93.86864795		
186.8515493	162.6670582	189.3745953	88.56802869		
179.6310676	-1.017863598	0.001340383	0.013427546		PLA2G6
	22	38111495	38205690	-	6758
	protein_coding	phospholipase A2 group VI	[Source:HGNC Symbol;Acc:HGNC:9039]	-	66
	193	0.534097396	0.671974813	0.65804486	186
1.330748463	1.147784651	1.333168849			178
ENSG00000153551	428.07582	438.4478896	518.2331606		
201.9202226	317.1093775	294.3646558	461.5856234		
271.1314186	0.767136608	0.001343113	0.013446082		CMTM7
	3	32391671	32483067	+	3751

protein_coding	CKLF like MARVEL transmembrane domain containing 7							
	[Source:HGNC Symbol;Acc:HGNC:19178]	-	370	473	530			
	201	347	300	5.394477334	5.559657457			
6.545325685	2.590897368		4.031261848	3.733534995				
ENSG0000049449	2681.837164		2778.99952	3082.998406				
2157.834021	1983.989794		2215.584643	2847.94503				
2119.136153	0.426650612		0.001347219	0.013478363			RCN1	
	11	32090904	32105755	+	4675			
protein_coding	reticulocalbin 1	[Source:HGNC Symbol;Acc:HGNC:9934]						
	-	2318	2998	3153	2148	2171	2258	
27.11605644	28.27378631		31.24243042	22.21538675				
20.23656545	22.54697889							
ENSG0000086475	1586.194457		1615.675838	1876.395161				
1315.997471	1215.433637		1086.20558	1692.755152				
1205.878896	0.48947725		0.001351103	0.013508381			SEPHS1	
	10	13317424	13348298	-	3888			
protein_coding	selenophosphate synthetase 1	[Source:HGNC						
Symbol;Acc:HGNC:19685]	-	1371	1743	1919	1310	1330		
	1107	19.28439024	19.76537638	22.8639454				
16.29094419	14.90678482		13.29129816					
ENSG00000128165	57.84808379		90.8412118	71.37928438				
178.8149235	175.4610965		131.4828796	73.35619332				
161.9196332	-1.138979566		0.001356603	0.013554503			ADM2	
	22	50481556	50486440	+	4276			
protein_coding	adrenomedullin 2	[Source:HGNC Symbol;Acc:HGNC:28898]						
	-	50	98	73	178	192	134	
0.63948008	1.010467471		0.790838164	2.012720742				
1.956690471	1.46289494							
ENSG00000113361	9.255693406		7.415609127	19.55596832	0			
	0	12.07575695	0	6.08748101				
0.001361354	1	CDH6	5	31193750	31329146			
	+	12379	protein_coding	cadherin 6	[Source:HGNC			
Symbol;Acc:HGNC:1765]	-	8	8	20	0	0		
	0	0.035342652	0.028493013	0.074842259	0			
	0	0						
ENSG00000144283	1200.926219		1207.817337	1442.252664				
1031.701834	812.421431		779.0851225	1283.665407				
874.4027958	0.554274456		0.001364186	0.013621371			PKP4	
	2	158456964	158682879	+	9525			
protein_coding	plakophilin 4	[Source:HGNC Symbol;Acc:HGNC:9026]						
	-	1038	1303	1475	1027	889	794	
5.959736821	6.03133414		7.173473392	5.213227479				
4.067198553	3.891361286							
ENSG00000196967	80.9873173		77.86389583	57.69010655				
191.8744404	151.7007397		132.4640951	72.18043989				
158.6797584	-1.137392738		0.001365963	0.01363021				
ZNF585A	19	37106734	37172741	-	10758			
protein_coding	zinc finger protein 585A	[Source:HGNC						
Symbol;Acc:HGNC:26305]	zf-C2H2	70	84	59	191	166		
	135	0.355845283	0.344256147	0.254052181				

0.858426357	0.672411521	0.585798512			
ENSG00000204956	38.1797353	21.31987624	31.28954932		
82.37541421	90.47212786	87.32818123	30.26305362		
86.7252411	-1.524659965	0.001369643	0.013653253		
PCDHGA1 5	141330571	141512981	+ 6252		
protein_coding	"protocadherin gamma subfamily A, 1 [Source:HGNC				
Symbol;Acc:HGNC:8696]"	-	33 23	32 82	99	
89	0.288662045	0.162197003	0.237101043		
0.634155991	0.690040884	0.664533797			
ENSG00000182768	994.9870411	936.2206523	934.7752859		
1465.679626	1502.385638	1146.059727	955.3276597		
1371.374997	-0.521864496	0.001370059	0.013653253	NGRN	
15	90265659	90278141	+ 7694		
protein_coding	"neugrin, neurite outgrowth associated [Source:HGNC				
Symbol;Acc:HGNC:18077]"	-	860 1010	956 1459	1644	
1168	6.112811195	5.787661859	5.755832752		
9.168627451	9.311255182	7.08658004			
ENSG00000130635	4723.874522	2800.319396	7959.279108		
2138.747035	1559.044951	2097.838781	5161.157675		
1931.876922	1.41771196	0.001372595	0.013661925	COL5A1	
9	134641774	134844843	+ 11189		
protein_coding	collagen type V alpha 1 chain [Source:HGNC				
Symbol;Acc:HGNC:2209]"	-	4083 3021	8140 2129	1706	
2138	19.95642843	11.90401346	33.70044122		
9.199952903	6.6442559	8.919950881			
ENSG0000020922	1839.569064	1677.781565	1544.921498		
1041.747616	1198.984159	1333.471891	1687.424042		
1191.401222	0.501821754	0.001372716	0.013661925	MRE11	
11	94415578	94493908	- 7689		
protein_coding	"MRE11 homolog, double strand break repair nuclease				
[Source:HGNC Symbol;Acc:HGNC:7230]"	-		1590 1810	1580	
1037	1312 1359	11.30894199	10.37869315		
9.518963945	6.520938615	7.435712198	8.250791864		
ENSG00000146476	755.4959742	742.4878638	571.034275		
268.2223853	475.2071363	468.0398028	689.6727044		
403.8231081	0.771411623	0.00137362	0.013662019	ARMT1	
6	151452258	151470101	+ 2819		
protein_coding	acidic residue methyltransferase 1 [Source:HGNC				
Symbol;Acc:HGNC:17872]"	-	653 801	584 267	520	
477	12.66813895	12.52770154	9.59666262		
4.579493026	8.038349139	7.898949531			
ENSG00000198919	777.4782461	542.2664174	790.0611203		
515.3486279	395.7013269	394.4486388	703.2685946		
435.1661979	0.69221981	0.001375194	0.013668787	DZIP3	
3	108589682	108694846	+ 6972		
protein_coding	DAZ interacting zinc finger protein 3 [Source:HGNC				
Symbol;Acc:HGNC:30938]"	-	672 585	808 513	433	
402	5.271164957	3.699409825	5.368543027		
3.557633477	2.706382121	2.691625973			
ENSG00000013619	437.3315134	437.5209385	515.2997653		

211.9660048	247.6560268	350.2939405	463.3840724	
269.9719907	0.779598927	0.001385696	0.013764222	MAMLD1
X	150361422	150514178	+ 5958	
protein_coding	mastermind like domain containing 1 [Source:HGNC			
Symbol;Acc:HGNC:2568]	-	378 472	527 211	271
357	3.469652765	3.492813989	4.097439711	
1.712313075	1.982108344	2.797137097		
ENSG00000137103	240.6480285	371.7074075	273.7835565	
530.4173012	535.5218882	426.828751	295.3796642	
497.5893135	-0.750619678	0.001391167	0.013809587	TMEM8B
9	35814451	35865518	+ 16165	
protein_coding	transmembrane protein 8B [Source:HGNC			
Symbol;Acc:HGNC:21427]	-	208 401	280 528	586
435	0.703691554	1.093711105	0.802388652	
1.579281071	1.579721412	1.256202299		
ENSG00000136244	35.86581195	52.83621503	55.73450972	
12.05493866	10.05245865	11.77458623	48.14551223	
11.29399452	2.094780046	0.001393536	0.013820299	IL6
7	22725884	22732002	+ 2069	
protein_coding	interleukin 6 [Source:HGNC			
Symbol;Acc:HGNC:6018]	-	31 57	57 12	11 12
0.819399918	1.214642081	1.27619436	0.280428386	
0.231681199	0.270748956			
ENSG00000196646	174.701213	132.5540131	106.5800274	
290.3231062	273.2441033	225.6795695	137.9450845	
263.0822597	-0.934139899	0.001394054	0.013820299	ZNF136
19	12163064	12189881	+ 5425	
protein_coding	zinc finger protein 136 [Source:HGNC			
Symbol;Acc:HGNC:12920]	zf-C2H2	151 143	109 289	299
230	1.522200701	1.162171585	0.930741784	
2.575723953	2.401762411	1.979129122		
ENSG00000167969	437.3315134	507.9692252	534.8557336	
262.1949159	360.0607917	286.5149317	493.3854907	
302.9235464	0.703668442	0.001396387	0.013829118	ECI1
16	2239395 2252300	- 3234	protein_coding	enoyl-
CoA delta isomerase 1 [Source:HGNC				
Symbol;Acc:HGNC:2703]	-			
378	548 547	261 394	292	6.392143219
7.470927138	7.835194225	3.90212977	5.30902541	
4.214915494				
ENSG00000158246	65.94681552	63.95962872	66.4902923	
10.04578222	0.913859877	25.51160351	65.46557884	
12.15708187	2.434074373	0.001396753	0.013829118	TENT5B
1	27005020	27012836	- 2368	
protein_coding	terminal nucleotidyltransferase 5B [Source:HGNC			
Symbol;Acc:HGNC:28273]	-	57 69	68 10	1
26	1.31639999	1.284698895	1.330238982	
0.204182971	0.018402503	0.512551709		
ENSG00000146938	19.66834849	6.488657986	31.28954932	
1.004578222	0	0.981215519	19.14885193	0.661931247
4.878512147	0.001399825	1	NLGN4X X	

5840637	6228863	-	7441	protein_coding	neurologin 4 X-linked				
[Source:HGNC Symbol;Acc:HGNC:14287]				-	17	7	32		
	1	0	1	0.124943115	0.041476366				
0.199214584	0.006497853		0	0.00627357					
ENSG00000173705	178.1720981			126.0653552	293.3395248				
92.42119643	54.83159264			103.0276295	199.192326				
83.42680621	1.256870699			0.001400147	0.013849706		SUSD5		
	3	33150042		33219215	-	5008			
protein_coding	sushi domain	containing 5	[Source:HGNC						
Symbol;Acc:HGNC:29061]				-	154	136	300	92	60
	105	1.681710026		1.197315338	2.774977016				
0.88822854	0.522090184			0.978748286					
ENSG00000147872	12651.37592			13849.577	6104.395512				
23429.77787	32526.10076			20133.56124	10868.44948				
25363.14662	-1.222598616			0.001400644	0.013849706		PLIN2		
	9	19108375		19149290	-	5086			
protein_coding	perilipin 2	[Source:HGNC Symbol;Acc:HGNC:248]						-	
	10935	14941	6243	23323	35592	20519	117.5809986		
	129.5201289	56.861647		221.7222479	304.9542109				
	188.3327602								
ENSG00000197959	179.3290597			164.0703519	220.9824421				
106.4852915	92.29984762			78.49724156	188.1272846				
92.42746024	1.025622827			0.001403298	0.013866981		DNM3		
	1	171841498		172418466	+	11329			
protein_coding	dynamamin 3	[Source:HGNC Symbol;Acc:HGNC:29125]						-	
	155	177	226	106	101	80	0.748229512		
	0.688835701	0.92410074		0.452392613	0.388497649				
	0.329643446								
ENSG00000091317	3038.18136			2583.41283	2676.234265				
2150.801973	2063.495603			1935.93822	2765.942818				
2050.078599	0.431826794			0.001404916	0.013873995		CMTM6		
	3	32481312		32503408	-	4413			
protein_coding	CKLF like MARVEL	transmembrane	domain	containing 6					
[Source:HGNC Symbol;Acc:HGNC:19177]				-	2626	2787	2737		
	2141	2258	1973	32.5428442	27.84434456				
28.73050937	23.45762052			22.29711162	20.87080468				
ENSG00000159733	102.9695891			116.7958437	77.24607488				
239.0896168	198.3075934			168.7690693	99.00383592				
202.0554265	-1.028874877			0.001419924	0.014013152				
ZFYVE28	4	2269582	2418663	-	9624	protein_coding	zinc		
finger FYVE-type	containing 28	[Source:HGNC Symbol;Acc:HGNC:29334]							
	-	89	126	79	238	217	172		
0.505742097	0.577229993			0.380254124	1.195700908				
0.982568229	0.834293516								
ENSG00000179820	4030.854478			3891.340889	2818.015035				
4047.445657	5596.477889			6425.980437	3580.070134				
5356.634661	-0.581473396			0.001421397	0.014018647		MYADM		
	19	53866223		53876437	+	3675			
protein_coding	myeloid associated	differentiation	marker	[Source:HGNC					
Symbol;Acc:HGNC:7544]				-	3484	4198	2882	4029	6124

6549	51.84603106	50.36386473	36.32779924	
53.00796606	72.61668787	83.18857459		
ENSG00000186812	570.3821061	540.4125151	394.0527617	
746.401619	801.4551125	768.2917517	501.6157943	
772.0494944	-0.622890704	0.001422757	0.014023005	ZNF397
18	35241030	35267133	+ 8710	
protein_coding	zinc finger protein 397 [Source:HGNC			
Symbol;Acc:HGNC:18818]	zf-C2H2	493 583	403 743	877
783	3.095447745	2.951102933	2.143331501	
4.124505388	4.387731422	4.19652334		
ENSG00000245532	12189.74822	13641.93994	10126.0804	
18505.33543	12779.41653	22318.72821	11985.92285	
17867.82672	-0.575993643	0.001424413	0.014030284	NEAT1
11	65422774	65445540	+ 22767	
lincRNA	nuclear paraspeckle assembly transcript 1 [Source:HGNC			
Symbol;Acc:HGNC:30815]	-	10536 14717	10356 18421	13984
22746	25.30839868	28.50016933	21.0711719	
39.12087965	26.76604511	46.63857399		
ENSG00000136379	499.8074439	351.3144824	439.0314889	
299.3643102	213.8432113	242.3602333	430.0511384	
251.8559183	0.771525038	0.001433849	0.014107775	
ABHD17C 15	80679684	80755621	+ 3627	
protein_coding	abhydrolase domain containing 17C [Source:HGNC			
Symbol;Acc:HGNC:26925]	-	432 379	449 298	234
247	6.513747267	4.607078501	5.734575055	
3.972555057	2.811427571	3.179035909		
ENSG00000169738	953.3364208	1035.404424	1152.824333	
692.154395	739.3126408	761.4232431	1047.188393	
730.9634263	0.518954867	0.001434126	0.014107775	DCXR
17	82035136	82037732	- 1902	
protein_coding	dicarbonyl and L-xylulose reductase [Source:HGNC			
Symbol;Acc:HGNC:18985]	-	824 1117	1179 689	809
776	23.69252851	25.89265701	28.71479686	
17.51499129	18.53517141	19.04571339		
ENSG00000188064	489.3947888	714.6793296	436.0980936	
779.5527003	990.6241071	862.4884416	546.7240707	
877.555083	-0.681960939	0.001444159	0.014197339	WNT7B
22	45920362	45977129	- 5051	
protein_coding	Wnt family member 7B [Source:HGNC			
Symbol;Acc:HGNC:12787]	-	423 771	446 776	1084
879	4.579918098	6.729936516	4.090345056	
7.428233881	9.35212949	8.123768564		
ENSG00000105193	19950.64714	20680.27995	21869.43938	
24327.8708	27127.93046	31585.32757	20833.45549	
27680.37628	-0.409949762	0.001462414	0.014367563	RPS16
19	39433207	39435948	- 2603	
protein_coding	ribosomal protein S16 [Source:HGNC			
Symbol;Acc:HGNC:10396]	-	17244 22310	22366 24217	29685
32190	362.2918453	377.8847451	398.0307347	
449.8289375	496.9600559	577.288418		

ENSG00000160695	1427.690708	1481.267923	1301.449692		
2004.133553	1901.742405	1819.173573	1403.469441		
1908.349844	-0.443308453	0.001466892	0.014402299	VPS11	
11	119067692	119081978	+ 5907		
protein_coding	"VPS11, CORVET/HOPS core subunit [Source:HGNC				
Symbol;Acc:HGNC:14583]"	-	1234 1598	1331 1995	2081	
1854	11.42464993	11.92734447	10.43790982		
16.32966012	15.35195565	14.65172622			
ENSG00000173153	1023.911083	1695.393637	1409.985316		
2014.179335	1957.487857	2184.185746	1376.430012		
2051.95098	-0.575190525	0.001470846	0.014431849	ESRRA	
11	64305572	64316743	+ 3030		
protein_coding	estrogen related receptor alpha [Source:HGNC				
Symbol;Acc:HGNC:3471]	ESR-like	885	1829 1442	2005	
2142	2226	15.97332599	26.61368639	22.04576063	
31.99432595	30.80600884	34.29482312			
ENSG00000166508	7696.109067	8438.036235	8836.364287		
6105.826433	5784.733024	6962.705326	8323.503196		
6284.421595	0.405511339	0.001481732	0.014526994	MCM7	
7	100092728	100101940	- 4386		
protein_coding	minichromosome maintenance complex component 7				
[Source:HGNC	Symbol;Acc:HGNC:6950]	-	6652 9103	9037	
6078	6330 7096	82.94273004	91.50606361		
95.44608313	67.00285137	62.89175015	75.52504893		
ENSG00000163704	119.1670526	178.9015702	140.8029719		
282.2864804	275.985683	249.2287419	146.2905316		
269.1669684	-0.877113853	0.001482443	0.014526994	PRRT3	
3	9945542 9952394	- 3939	protein_coding		
proline rich transmembrane protein 3	[Source:HGNC				
Symbol;Acc:HGNC:26591]	-	103 193	144 281	302	
254	1.430032661	2.160256329	1.693475692		
3.449225241	3.341023727	3.01018905			
ENSG00000274211	935.9819957	963.1022353	1042.333112		
1348.143974	1386.325434	1323.659736	980.4724475		
1352.709715	-0.464118189	0.001489308	0.014584914	SOCS7	
17	38352228	38405593	+ 8621		
protein_coding	suppressor of cytokine signaling 7 [Source:HGNC				
Symbol;Acc:HGNC:29846]	-	809 1039	1066 1342	1517	
1349	5.131987493	5.313636732	5.727986891		
7.52655236	7.668078204	7.304665621			
ENSG00000077312	934.825034	1426.577806	1842.172216		
871.9738967	788.6610742	949.8166228	1401.191685		
870.1505313	0.688037025	0.001492355	0.014602294	SNRPA	
19	40750637	40765389	+ 2361		
protein_coding	small nuclear ribonucleoprotein polypeptide A				
[Source:HGNC	Symbol;Acc:HGNC:11151]	-	808 1539	1884	
868	863 968	18.71587287	28.73932679		
36.96471543	17.77562807	15.92844596	19.13927163		
ENSG00000077549	5147.322495	5090.815666	5355.401925		
3808.35604	4202.841576	3998.453242	5197.846695		

4003.216953	0.376707323	0.001494044	0.014602294	CAPZB
1	19338776	19485539	- 3238	
protein_coding	capping actin protein of muscle Z-line subunit beta			
[Source:HGNC Symbol;Acc:HGNC:1491]	-	4449	5492 5477	
3791	4599 4075	75.14157158	74.78037559	
78.35529541	56.608045	61.8935172	58.74850298	
ENSG00000111077	609.7188031	790.6893231	990.5097956	
450.0510435	519.9862702	535.7436736	796.9726406	
501.9269958	0.667702547	0.001494773	0.014602294	TNS2
12	53046969	53064372	+ 8093	
protein_coding	tensin 2 [Source:HGNC Symbol;Acc:HGNC:19737]			-
527	853 1013	448 569	546 3.561195267	
4.647008306	5.798322418	2.676515052	3.063806433	
3.149409536				
ENSG00000233117	513.690984	374.4882609	435.1202952	
238.0850386	306.1430589	250.2099575	441.0998467	
264.812685	0.734468301	0.001495384	0.014602294	
LINC00702	10 4201141	4243912 -	6785 lincRNA long	
intergenic non-protein coding RNA 702	[Source:HGNC			
Symbol;Acc:HGNC:44676]	-	444 404	445 237 335	
255	3.57872091	2.625218591	3.038173804	
1.688883569	2.151560452	1.75443129		
ENSG00000136783	623.6023432	513.530932	452.7206667	
272.2406982	391.1320275	295.3458714	529.951314	
319.5728657	0.728183407	0.001495859	0.014602294	
NIPSNAP3A	9 104747688	104760122	+ 2585	
protein_coding	nipsnap homolog 3A [Source:HGNC			
Symbol;Acc:HGNC:23619]	-	539 554	463 271 428	
301	11.40309994	9.448941828	8.297034566	
5.068856074	7.215091105	5.435656247		
ENSG00000177707	2035.095588	1478.48707	1868.572773	
1188.416037	1287.628567	1303.05421	1794.05181	
1259.699605	0.509605157	0.001499236	0.014625927	
NECTIN3 3	111070071	111275563	+ 6184	
protein_coding	nectin cell adhesion molecule 3 [Source:HGNC			
Symbol;Acc:HGNC:17664]	-	1759 1595	1911 1183 1409	
1328	15.55575417	11.37169399	14.31507613	
9.249462164	9.928876527	10.02477491		
ENSG00000173110	75.20250892	30.58938765	104.6244305	
171.782876	107.8354655	310.0641042	70.1387757	
196.5608152	-1.488014167	0.001505569	0.014669752	HSPA6
1	161524540	161526910	+ 2371	
protein_coding	heat shock protein family A (Hsp70) member 6			
[Source:HGNC Symbol;Acc:HGNC:5239]	-	65 33	107	
171	118 316	1.499258485	0.61364379	
2.090521698	3.487111009	2.168747797	6.221592529	
ENSG00000138835	2231.779072	2921.749996	2108.133385	
2920.308891	4047.485397	3546.112887	2420.554151	
3504.635725	-0.5337862	0.001505648	0.014669752	RGS3
9	113444731	113597743	+ 13793	

protein_coding	regulator of G protein signaling 3	[Source:HGNC					
Symbol;Acc:HGNC:9999]	-	1929	3152	2156	2907	4429	
	3614	7.648357933	10.0753799	7.240898773			
10.19031273		13.99282948	12.23137969				
ENSG00000220161	16.19746346	3.707804563		16.62257307		0	
	0	12.17594703	0	6.096675626			
0.001511116	1	LINC02076	17	18411159			
18414380	+	1871	lincRNA long intergenic non-protein				
coding RNA 2076	[Source:HGNC	Symbol;Acc:HGNC:52924]	-			14	
	4	17	0	0	0.409212565		
0.094258421		0.420898705	0	0	0		
ENSG00000135966	1155.804714	1313.489767		1280.915925			
1796.185861		1834.116774	1555.226598	1250.070135			
1728.509744		-0.46718661	0.001530607	0.014903435			
TGFBRAP1	2	105264391	105330034	-		6005	
protein_coding	transforming growth factor beta receptor						
associated protein 1	[Source:HGNC	Symbol;Acc:HGNC:16836]	-				
	999	1417	1310	1788	2007	1585	9.098026327
	10.40377129		10.10556825		14.39646014		14.56441209
	12.32146338						
ENSG00000170144	8728.118882	8683.678287		9498.333815			
7439.906312		5895.310069	6917.569412	8970.043661			
6750.928598		0.410107354	0.001552495	0.01508995			
HNRNPA3	2	177212563	177223958	+		6033	
protein_coding	heterogeneous nuclear ribonucleoprotein A3						
[Source:HGNC	Symbol;Acc:HGNC:24941]	-		7544	9368	9714	
	7406	6451	7050	68.38534892	68.46167409		
74.58770245		59.35421956	46.59639459	54.55088837			
ENSG00000104880	121.480976	196.5136419		121.2470036			
343.5657519		200.1353132	338.5193542	146.4138738			
294.0734731		-1.003422877	0.00155299	0.01508995			
ARHGEF18	19	7395113	7472477	+	6235	protein_coding	
Rho/Rac	guanine nucleotide exchange factor 18	[Source:HGNC					
Symbol;Acc:HGNC:17090]	-	105	212	124	342	219	
	345	0.920974391	1.499109516	0.921271599			
2.652105919		1.530616021	2.583025378				
ENSG00000174705	3297.340776	3048.742302		2987.174161			
5275.040244		3856.488683	3879.726164	3111.085746			
4337.08503		-0.479332798	0.00155309	0.01508995			
SH3PXD2B	5	172325000	172454523	-		8242	
protein_coding	SH3 and PX domains 2B	[Source:HGNC					
Symbol;Acc:HGNC:29242]	-	2850	3289	3055	5251	4220	
	3954	18.91067202	17.59402567	17.1704256			
30.80424895		22.31199678	22.39494966				
ENSG00000085840	1266.873035	997.3994276		1185.09168			
762.4748705		712.8107044	888.9812606	1149.788048			
788.0889452		0.544605789	0.001553711	0.01508995		ORC1	
	1	52372829	52404459	-	3157		
protein_coding	origin recognition complex subunit 1	[Source:HGNC					
Symbol;Acc:HGNC:8487]	-	1095	1076	1212	759	780	

906	18.96855508	15.02697789	17.78404275	
11.62434285	10.76660099	13.39675613		
ENSG00000139926	2265.330961	1607.333278	1777.637521	
1215.539649	1247.418733	1448.274107	1883.43392	
1303.744163	0.530173934	0.001554747	0.01509042	FRMD6
14	51489100	51730727	+ 9416	
protein_coding	FERM domain containing 6 [Source:HGNC			
Symbol;Acc:HGNC:19839]	-	1958 1734	1818 1210	1365
1476	11.37210734	8.119262849	8.943960754	
6.21326872	6.31720251	7.317554126		
ENSG00000174165	476.6682104	525.5812969	554.411702	
745.3970407	732.0017618	807.5403725	518.8870697	
761.6463917	-0.553012733	0.00155926	0.015119004	
ZDHHC24 11	66520637	66546238	- 6266	
protein_coding	zinc finger DHHC-type containing 24 [Source:HGNC			
Symbol;Acc:HGNC:27387]	-	412 567	567 742	801
823	3.595849762	3.989574931	4.191747598	
5.7255173	5.570583947	6.131341142		
ENSG00000088832	4779.408682	4753.40545	5242.955107	
3482.872696	3833.642186	3937.61788	4925.256413	
3751.377587	0.392772992	0.00155967	0.015119004	FKBP1A
20	1368978 1393172	- 2577	protein_coding	FK506
binding protein	1A [Source:HGNC Symbol;Acc:HGNC:3711]			4131
5128	5362 3467	4195 4013	87.6668676	
87.73392437	96.38619739	65.04900226	70.93754336	
72.69436998				
ENSG00000105229	542.6150259	932.5128477	808.6392902	
1336.089035	1065.560617	1180.40227	761.2557213	
1194.017307	-0.647939065	0.001565979	0.015170548	PIAS4
19	4007646 4039386	+ 3646	protein_coding	
protein inhibitor of activated	STAT 4 [Source:HGNC			
Symbol;Acc:HGNC:17002]	zf-MIZ	469 1006	827 1330	1166
1203	7.034786008	12.16508855	10.50730408	
17.63746615	13.93607529	15.40263411		
ENSG00000115257	37.02277362	63.03267758	51.82331606	
128.5860124	116.0602044	120.6895089	50.62625575	
121.7785752	-1.261436797	0.001574024	0.015238825	PCSK4
19	1481428 1490752	- 3792	protein_coding	
proprotein convertase subtilisin/kexin type 4	[Source:HGNC			
Symbol;Acc:HGNC:8746]	-	32 68	53 128	127
123	0.461504949	0.79063228	0.647455608	
1.632085316	1.459466027	1.514198524		
ENSG00000135052	2284.99931	2014.264829	2153.112112	
1579.196965	1567.26969	1658.254228	2150.792084	
1601.573628	0.425155757	0.001582295	0.015290881	GOLM1
9	86026146	86100173	- 4233	
protein_coding	golgi membrane protein 1 [Source:HGNC			
Symbol;Acc:HGNC:15451]	-	1975 2173	2202 1572	1715
1690	25.51605586	22.63317158	24.09747298	
17.9558302	17.65527366	18.63736334		

ENSG00000177873	297.3391507	262.3271729	186.7594975	
468.1334515	385.6488683	418.9790268	248.808607	
424.2537822	-0.771066542	0.001582639	0.015290881	ZNF619
3	40477113	40490236	+ 4514	
protein_coding	zinc finger protein 619 [Source:HGNC			
Symbol;Acc:HGNC:26910]	zf-C2H2	257 283	191 466	422
427	3.113624826	2.764132382	1.960082126	
4.991436821	4.073891835	4.415830107		
ENSG00000143641	1576.938764	1712.078757	2145.289725	
1272.800607	1219.089076	1341.321615	1811.435749	
1277.7371	0.50389958	0.001583495	0.015290881	GALNT2
1	230057990	230282124	+ 7743	
protein_coding	polypeptide N-acetylgalactosaminyltransferase 2			
[Source:HGNC	Symbol;Acc:HGNC:4124]	-	1363 1847	2194
1267	1334 1367	9.626785814	10.51699322	
13.12592202	7.911677429	7.507669881	8.241481558	
ENSG00000102158	2493.252411	1800.139116	2691.87904	
1646.503706	1487.76388	1694.559202	2328.423522	
1609.608929	0.532479677	0.001583572	0.015290881	MAGT1
X	77826364	77895593	- 4862	
protein_coding	magnesium transporter 1 [Source:HGNC			
Symbol;Acc:HGNC:28880]	-	2155 1942	2753 1639	1628
1727	24.2396884	17.61035979	26.22972351	
16.29915972	14.59143631	16.58148487		
ENSG00000258768	37.02277362	38.00499677	32.26734773	
146.6684204	55.74545252	107.9337071	35.76503938	
103.4491934	-1.531332765	0.001584402	0.015290881	
AL356019.2	14 20260480	20264308	-	3829
lincRNA	novel transcript			33
146	61 110	0.457045382	0.472098313	
0.399237226	1.843608518	0.694229503	1.34107589	
ENSG00000062282	68.26073887	158.5086451	84.09066379	
304.3872013	215.6709311	179.5624401	103.6200159	
233.2068575	-1.166025317	0.001585625	0.015293028	DGAT2
11	75759512	75801535	+ 7905	
protein_coding	diacylglycerol 0-acyltransferase 2 [Source:HGNC			
Symbol;Acc:HGNC:16940]	-	59 171	86 303	236
183	0.408173542	0.95373604	0.503963441	
1.853283976	1.300974327	1.080675365		
ENSG00000157306	1.156961676	1.853902282	2.933395248	
36.16481599	4.569299387	37.28618974	1.981419735	
26.00676837	-3.699354562	0.001588517	0.015311258	ZFH2-
AS1 14	23511760	23560778	+ 5097	
processed_transcript	ZFH2 antisense RNA 1 [Source:HGNC			
Symbol;Acc:HGNC:52658]	-	1 2	3 36	5
38	0.010729515	0.017300128	0.027265224	
0.341498723	0.04274782	0.348028652		
ENSG00000174607	139.9923628	145.5313291	172.0925212	
71.32505376	31.98509571	83.40331915	152.5387377	
62.23782288	1.295876744	0.00159047	0.015317982	UGT8

4	114598455	114678224	+	4699	
protein_coding	UDP glycosyltransferase 8 [Source:HGNC				
Symbol;Acc:HGNC:12555]	-	121	157	176	71 35
85	1.408233392	1.473086215		1.735040747	
0.730557023	0.324579582	0.844421955			
ENSG00000127337	925.5693406	824.0595642		709.8816501	
550.5088657	596.7505	493.5514063		819.8368516	
546.936924	0.583201489	0.001591998		0.015317982	YEATS4
12	69359703	69390796	+	1714	
protein_coding	YEATS domain containing 4 [Source:HGNC				
Symbol;Acc:HGNC:24859]	Others	800	889	726	548 653
503	25.52547791	22.86782718		19.62132173	
15.45862839	16.6020211	13.69945226			
ENSG00000068885	429.2327817	363.3648472		376.4523902	
173.7920324	268.674804	238.4353712		389.6833397	
226.9674025	0.778350119	0.001592727		0.015317982	IFT80
3	160256986	160399880	-	7175	
protein_coding	intraflagellar transport 80 [Source:HGNC				
Symbol;Acc:HGNC:29262]	-	371	392	385	173 294
243	2.827787152	2.408785452		2.485657461	
1.165803659	1.785599365	1.580994664			
ENSG00000165271	3113.383869	3971.985639		3690.211223	
5633.674669	4336.265118	4914.908537		3591.860243	
4961.616108	-0.465758124	0.00159333		0.015317982	NOL6
9	33461441	33473930	-	5906	
protein_coding	nucleolar protein 6 [Source:HGNC				
Symbol;Acc:HGNC:19910]	-	2691	4285	3774	5608 4745
5009	24.9181025	31.98831335		29.60130849	
45.91089708	35.01074658	39.59165213			
ENSG00000164187	679.1365036	691.5055511		703.0370612	
497.2662199	466.0685375	449.3967079		691.226372	
470.9104884	0.553895547	0.001594433		0.015317982	LMBRD2
5	36098412	36151961	-	8421	
protein_coding	LMBR1 domain containing 2 [Source:HGNC				
Symbol;Acc:HGNC:25287]	-	587	746	719	495 510
458	3.812142677	3.905792059		3.955192985	
2.842122207	2.63915627	2.538913159			
ENSG00000174282	1159.275599	1456.240242		1652.479323	
2009.156444	1839.599933	2328.424428		1422.665055	
2059.060268	-0.53275375	0.001595226		0.015317982	ZBTB4
17	7459366	7484263	-	6126	protein_coding zinc
finger and BTB domain containing 4 [Source:HGNC	Symbol;Acc:HGNC:23847]				
ZBTB	1002	1571	1690	2000	2013 2373
8.945104979	11.30662922	12.77945014		15.78535014	
14.31941844	18.08284591				
ENSG00000176788	1642.88558	2224.682738		1797.193489	
2289.433768	3147.333418	2720.910635		1888.253935	
2719.22594	-0.525861328	0.001607009		0.015421436	BASP1
5	17065598	17276843	+	2217	
protein_coding	brain abundant membrane attached signal protein 1				

[Source:HGNC Symbol;Acc:HGNC:957]	-	1420	2400	1838
2279	3444 2773	35.02816316	47.72868912	
38.40451366	49.70268478	67.69491502	58.38888907	
ENSG00000164366	455.8429002	477.3798375	478.1434255	
724.3008981	725.6047427	634.8464411	470.4553878	
694.9173606	-0.562569895	0.001609167	0.015432457	
CCDC127	5 196871 218215	- 9701	protein_coding	
coiled-coil domain containing 127	[Source:HGNC Symbol;Acc:HGNC:30520]			
-	394 515	489 721	794 647	
2.221132312	2.340586428	2.335042612	3.593519258	
3.566667263	3.113392049			
ENSG00000115295	475.5112487	368.9265541	285.5171375	
641.9254839	515.4169709	725.1182689	376.6516468	
627.4869079	-0.737633776	0.001610624	0.015436747	CLIP4
2	29097705	29189643	+ 7775	
protein_coding	CAP-Gly domain containing linker protein family member			
4 [Source:HGNC Symbol;Acc:HGNC:26108]	-	411	398	292
639	564 739	2.890920421	2.256922428	
1.739742246	3.973760395	3.161093225	4.437006618	
ENSG00000159199	1139.607251	1283.82733	1672.035292	
895.0791958	838.0095076	1023.407787	1365.156624	
918.8321634	0.57170613	0.001614522	0.015464406	
ATP5MC1	17 48892765	48895871	+ 2615	
protein_coding	ATP synthase membrane subunit c locus 1 [Source:HGNC			
Symbol;Acc:HGNC:841]	-	985 1385	1710 891	917
1043	20.59962194	23.35135241	30.29192501	
16.47430975	15.28115709	18.61909857		
ENSG00000160256	319.3214225	632.1806781	608.1906149	
834.8045025	806.0244119	996.9149678	519.8975718	
879.2479607	-0.756224972	0.001625016	0.015543835	
FAM207A	21 44940010	44976989	+ 1402	
protein_coding	family with sequence similarity 207 member A			
[Source:HGNC Symbol;Acc:HGNC:15811]	-	276	682	622
831	882 1016	10.76603485	21.44718604	
20.55156159	28.65855089	27.41442677	33.8292002	
ENSG00000133789	1906.672842	1881.710816	2003.508955	
1337.093614	1537.112314	1407.063055	1930.630871	
1427.089661	0.435850808	0.00162639	0.015543835	SWAP70
11	9664077 9752991	+ 7190	protein_coding	
switching B cell complex subunit SWAP70	[Source:HGNC			
Symbol;Acc:HGNC:17070]	-	1648 2030	2049 1331	1682
1434	12.53496223	12.44804374	13.20126423	
8.950563573	10.19425983	9.310356201		
ENSG00000136950	1369.842624	1597.136816	1273.093538	
1958.927533	2114.671756	1816.229927	1413.357659	
1963.276405	-0.473964669	0.001626408	0.015543835	ARPC5L
9	124862130	124877733	+ 3610	
protein_coding	actin related protein 2/3 complex subunit 5 like			
[Source:HGNC Symbol;Acc:HGNC:23366]	-	1184	1723	1302
1950	2314 1851	17.93656242	21.04321215	

16.70729874	26.11732094	27.93281792	23.93565148	
ENSG00000151466	313.5366141	280.8661957	351.0296314	
191.8744404	189.1689946	172.6939314	315.1441471	
184.5791222	0.77155789	0.001626881	0.015543835	SCLT1
4	128864921	129093607	- 8292	
protein_coding	sodium channel and clathrin linker 1 [Source:HGNC			
Symbol;Acc:HGNC:26406]	-	271 303	359 191	207
176	1.787329857	1.611080693	2.005569013	
1.113718132	1.087851587	0.990830599		
ENSG00000115419	5982.648825	4244.509274	4581.963378	
3599.40377	3543.948605	3566.718413	4936.373826	
3570.023596	0.467246084	0.00162912	0.015555498	GLS
2	190880827	190965552	+ 9827	
protein_coding	glutaminase [Source:HGNC Symbol;Acc:HGNC:4331]			-
5171	4579 4686	3583 3878	3635 28.77718405	
20.54393562	22.0893931	17.62897527	17.19671312	
17.2675012				
ENSG00000154832	1660.240005	2073.589702	1850.972402	
2598.84386	2347.706025	2696.380248	1861.600703	
2547.643378	-0.452111366	0.001630732	0.015561178	CXXC1
18	50282343	50288304	- 4319	
protein_coding	CXXC finger protein 1 [Source:HGNC			
Symbol;Acc:HGNC:24343]	-	1435 2237	1893 2587	2569
2748	18.17035489	22.83582667	20.30345119	
28.96105919	25.92026862	29.70158052		
ENSG00000155324	369.0707746	335.556313	442.9426825	
238.0850386	234.8619885	220.7734919	382.5232567	
231.240173	0.72613395	0.001646855	0.01570522	
GRAMD2B 5	126360132	126496494	+ 5051	
protein_coding	GRAM domain containing 2B [Source:HGNC			
Symbol;Acc:HGNC:24911]	-	319 362	453 237	257
225	3.453886225	3.159840491	4.154543296	
2.268674523	2.217248412	2.079462943		
ENSG00000122870	757.8098976	609.0068995	795.9279108	
534.4356141	468.8101171	385.6176992	720.9149026	
462.9544768	0.638665326	0.001659598	0.015816881	BICC1
10	58513140	58831437	+ 6569	
protein_coding	BicC family RNA binding protein 1 [Source:HGNC			
Symbol;Acc:HGNC:19351]	-	655 657	814 532	513
393	5.453015735	4.409608831	5.740207593	
3.91573765	3.403115593	2.792796711		
ENSG00000124766	736.9845874	994.6185741	880.0185745	
1250.699886	1620.273563	1087.186796	870.5405787	
1319.386748	-0.599392313	0.00166212	0.015831046	SOX4
6	21592768	21598619	+ 5852	
protein_coding	SRY-box 4 [Source:HGNC Symbol;Acc:HGNC:11200]			HMG
637	1073 900	1245 1773	1108 5.952917004	
8.084056915	7.124274553	10.28646732	13.20270793	
8.838559274				
ENSG00000100056	614.3466498	926.9511408	742.1489979	

1182.388567	1054.594299	1178.439839	761.1489295	
1138.474235	-0.579586682	0.001663358	0.015832975	ESS2
22	19130279	19144684	- 6003	
protein_coding	ess-2 splicing factor homolog	[Source:HGNC		
Symbol;Acc:HGNC:16817]	-	531 1000	759 1177	1154
1201	4.837499025	7.344557151	5.857008959	
9.480021799	8.377145588	9.339437065		
ENSG00000273391	10.41265508	10.19646255	13.68917783	0
0	0	11.43276515	0	6.008272667
0.001666877	1	AC083880.1	7	139359032
139359566	-	535	antisense	"novel transcript,
antisense to LUC7L2"	-	9	11	14 0 0
0	0.919990706	0.906510546	1.212206782	0
0	0			
ENSG00000128944	1007.71362	1088.240639	1125.445977	
821.7449856	749.3650995	704.512743	1073.800079	
758.5409427	0.501807548	0.001667957	0.015863472	KNSTRN
15	40382721	40394246	+ 3654	
protein_coding	kinetochore localized astrin (SPAG5) binding protein	[Source:HGNC		
Symbol;Acc:HGNC:30767]	-	871	1174	1151
818	820 718	13.03599919	14.1655523	
14.59181236	10.82395498	9.779213035	9.172800267	
ENSG00000114841	323.9492692	359.6570426	278.6725486	
621.8339194	401.1844862	574.0110789	320.7596202	
532.3431615	-0.730209084	0.001668974	0.015863472	DNAH1
3	52316319	52400491	+ 13872	
protein_coding	dynein axonemal heavy chain 1	[Source:HGNC		
Symbol;Acc:HGNC:2940]	-	280 388	285 619	439
585	1.103859155	1.233180371	0.951717896	
2.157509841	1.379062782	1.96862421		
ENSG00000231574	34.70885027	25.95463194	42.04533189	0
0	8.830939675	34.23627137	2.943646558	
3.546538426	0.001670433	0.015863472	LINC02015	3
177816865	177899224	+	3005	lincRNA long
intergenic non-protein coding RNA 2015	[Source:HGNC			
Symbol;Acc:HGNC:52850]	-	30 28	43 0	0
9	0.545973409	0.410816154	0.662867055	0
0	0.139811878			
ENSG00000177508	2033.938626	1960.501663	3050.731058	
1581.206121	1637.6369	1568.963616	2348.390449	
1595.935546	0.557384335	0.001671746	0.015863472	IRX3
16	54283304	54286763	- 2911	
protein_coding	iroquois homeobox 3	[Source:HGNC		
Symbol;Acc:HGNC:14360]	Homeobox	1758 2115	3120 1574	
1792	1599 33.02717123	32.03333269	49.64949601	
26.14350061	26.82590595	25.64202352		
ENSG00000251127	28.92404189	52.83621503	29.33395248	
80.36625776	101.4384464	124.614371	37.03140314	
102.1396917	-1.459085294	0.001671751	0.015863472	
AC091173.1	8	61759094	61765969	- 2750

	lincRNA novel transcript	-	25	57	30
80	111 127	0.497166695	0.913852533		
0.505348542	1.4065608	1.758931322	2.155842667		
ENSG00000260917	212.8809483	228.9569318	228.8048294		
482.1975466	297.91832	378.7491905	223.5475698		
386.2883524	-0.788048774	0.001675419	0.015888415		
AL158212.3	10 112823490	112827726	+	4237	
	sense_overlapping	uncharacterized	LOC103344931		
[Source:NCBI gene;Acc:103344931]	-	184	247	234	
480	326 386	2.374947818	2.570232715		
2.558349355	5.477520226	3.352877866	4.25279919		
ENSG00000182197	1410.336283	1778.819239	1699.413647		
1987.055723	2267.286356	2698.342679	1629.523056		
2317.561586	-0.507731671	0.00168648	0.015983393	EXT1	
8	117794490	118111853	- 8325		
protein_coding	exostosin glycosyltransferase 1	[Source:HGNC			
Symbol;Acc:HGNC:3512]	-	1219 1919	1738 1978	2481	
2750	8.007817671	10.1630647	9.670924343		
11.48796917	12.98676912	15.4203591			
ENSG00000142871	2332.434738	3868.167111	4385.425896		
2056.37162	2179.555808	2622.789084	3528.675915		
2286.238837	0.626468478	0.001691877	0.016024614	CYR61	
1	85580761	85583962	+ 2455		
protein_coding	cysteine rich angiogenic inducer 61	[Source:HGNC			
Symbol;Acc:HGNC:2654]	-	2016 4173	4485 2047	2385	
2673	44.90903717	74.94296068	84.62786931		
40.31508341	42.33460234	50.82688547			
ENSG00000152240	904.7440304	916.7546783	759.7493694		
460.0968257	673.5147297	553.405553	860.416026		
562.3390361	0.612932266	0.001694408	0.016030945	HAUS1	
18	46104332	46128333	+ 2165		
protein_coding	HAUS augmin like complex subunit 1	[Source:HGNC			
Symbol;Acc:HGNC:25174]	-	782 989	777 458	737	
564	19.75347764	20.14059743	16.62515006		
10.22842568	14.8343385	12.16094261			
ENSG00000167005	7364.061066	6581.3531	6997.125466		
5166.545796	5626.635265	5391.779279	6980.846544		
5394.98678	0.371661272	0.001694643	0.016030945	NUDT21	
16	56429133	56452199	- 5954		
protein_coding	nudix hydrolase 21	[Source:HGNC			
Symbol;Acc:HGNC:13870]	-	6365 7100	7156 5143	6157 5495	
58.46342986	52.57550785	55.67547839	41.76465618		
45.06287758	43.08289736				
ENSG00000163918	1672.966583	1446.970731	1176.291495		
904.1203998	1145.980286	801.6530794	1432.07627		
950.5845885	0.590535953	0.001718347	0.016245128	RFC4	
3	186789880	186807058	- 2997		
protein_coding	replication factor C subunit 4	[Source:HGNC			
Symbol;Acc:HGNC:9972]	-	1446 1561	1203 900	1254	
817	26.38616432	22.96413642	18.59436451		

14.51967793	18.23347271	12.72569029				
ENSG00000158545	3767.067216	4620.851437	4600.541548			
6664.371925	5168.791467	5914.767151	4329.486734			
5915.976848	-0.450159041	0.00172638	0.016310986	ZC3H18		
16	88570381	88631966	+	8648		
protein_coding	zinc finger CCH-type containing 18 [Source:HGNC					
Symbol;Acc:HGNC:25091]	-	3256	4985	4705	6634	5656
6028	20.59033573	25.41460942	25.20266128			
37.09035608	28.5004894	32.53895479				
ENSG00000112759	2099.885441	2130.133722	2571.609835			
1731.892855	1574.580569	1670.028814	2267.209666			
1658.834079	0.450978206	0.001731917	0.016353192			
SLC29A1	6	44219505	44234151	+	4408	
protein_coding	solute carrier family 29 member 1 (Augustine blood					
group) [Source:HGNC	Symbol;Acc:HGNC:11003]	-	1815	2298		
2630	1724	1723	1702	22.51799697	22.98488824	
27.63863677	18.91023353	17.03343703	18.02453235			
ENSG00000187446	1390.667934	1114.195271	1023.754942			
768.5023398	894.66882	739.8365017	1176.206049			
801.0025538	0.553383412	0.001750089	0.016513318	CHP1		
15	41230839	41281890	+	3950		
protein_coding	calcineurin like EF-hand protein 1 [Source:HGNC					
Symbol;Acc:HGNC:17433]	-	1202	1202	1047	765	979
754	16.64186845	13.41656472	12.2786902			
9.364089502	10.80050827	8.910873657				
ENSG00000070614	2743.156133	2872.621585	4462.671971			
2420.028937	1973.937335	2356.879678	3359.48323			
2250.281983	0.578368608	0.001751036	0.016513318	NDST1		
5	150485818	150558211	+	9529		
protein_coding	N-deacetylase and N-sulfotransferase 1 [Source:HGNC					
Symbol;Acc:HGNC:7680]	-	2371	3099	4564	2409	2160
2402	13.6075187	14.33864813	22.18711143			
12.22336244	9.877909023	11.76716144				
ENSG00000229029	32.39492692	3.707804563	2.933395248	0		
0	0	13.01204224	0	6.188633012		
0.001754162	1	CDCA4P1	9	14593577	14594200	
+	624	processed_pseudogene	cell division cycle			
associated 4 pseudogene 1 [Source:HGNC	Symbol;Acc:HGNC:49770]	-				
28	4	3	0	0	2.453963814	
0.282624209	0.222709694	0	0	0		
ENSG00000063176	469.7264403	570.0749516	673.7031087			
886.0379918	825.2154693	858.5635795	571.1681669			
856.6056802	-0.583599487	0.001766918	0.016645561	SPHK2		
19	48619291	48630717	+	6009		
protein_coding	sphingosine kinase 2 [Source:HGNC					
Symbol;Acc:HGNC:18859]	-	406	615	689	882	903
875	3.69503488	4.512392511	5.311527981			
7.096882218	6.548534864	6.797541768				
ENSG00000133398	910.5288388	1232.845017	1014.954756			
1389.331681	1732.678328	1449.255322	1052.776204			

1523.75511	-0.532893466	0.001768007	0.016645561	MED10
5	6371881 6378594	- 1880	protein_coding	
mediator complex subunit 10 [Source:HGNC Symbol;Acc:HGNC:28760]	-			
787	1330 1038	1383 1896	1477 22.8934685	
31.19088875	25.57654986	35.56849975	43.94799652	
36.67487834				
ENSG00000163376	252.2176453	271.5966843	206.3154658	
406.8541799	460.5853782	348.3315094	243.3765985	
405.2570225	-0.735947037	0.001769719	0.016645561	KBTBD8
3	66998307	67011210	+ 4736	
protein_coding kelch repeat and BTB domain containing 8 [Source:HGNC Symbol;Acc:HGNC:30691]	-	218 293	211 405	504
355	2.517326297	2.727657799	2.063826656	
4.134705159	4.637430783	3.499151089		
ENSG00000116885	197.8404465	201.1483976	133.958383	
344.5703302	284.2104219	318.8950438	177.6490757	
315.891932	-0.830819484	0.001769825	0.016645561	OSCP1
1	36415827	36450451	- 2788	
protein_coding organic solute carrier partner 1 [Source:HGNC Symbol;Acc:HGNC:29971]	-	171 217	137 343	311
325	3.354270276	3.431633686	2.276303958	
5.948432902	4.861006674	5.441725459		
ENSG00000253710	200.1543699	260.4732706	255.2053866	
432.9732137	422.2032634	339.5005697	238.611009	
398.2256823	-0.737354025	0.001771446	0.016645561	ALG11
13	52012398	52032171	+ 10335	
protein_coding "ALG11, alpha-1,2-mannosyltransferase [Source:HGNC Symbol;Acc:HGNC:32456]"	-	173 281	261 431	462
346	0.915440948	1.198753248	1.169856203	
2.016359685	1.948005112	1.562829692		
ENSG00000185624	10357.12092	9732.060028	12698.66803	
7325.384395	6701.334481	9383.364013	10929.28299	
7803.360963	0.486069215	0.001771592	0.016645561	P4HB
17	81843159	81860694	- 5303	
protein_coding prolyl 4-hydroxylase subunit beta [Source:HGNC Symbol;Acc:HGNC:8548]	-	8952 10499	12987 7292	7333
9563	92.31943951	87.28915042	113.4461258	
66.48539439	60.25854703	84.18186915		
ENSG00000124216	86.77212568	63.03267758	109.5134226	
14.06409511	44.77913399	17.66187935	86.43940862	
25.50170282	1.755908354	0.001775771	0.016674574	SNAI1
20	49982999	49988886	+ 1686	
protein_coding snail family transcriptional repressor 1 [Source:HGNC Symbol;Acc:HGNC:11128]	zf-C2H2	75 68	112 14	49
18	2.432755179	1.778219221	3.077250906	
0.40148718	1.266476418	0.498380419		
ENSG00000163900	698.8048521	656.2814077	651.2137452	
842.8411283	1012.556744	1031.257511	668.7666683	
962.2184611	-0.525333382	0.00177824	0.016687506	
TMEM41A 3	185476496	185499057	- 8668	

protein_coding	transmembrane protein 41A	[Source:HGNC				
Symbol;Acc:HGNC:30544]	-	604	708	666	839	1108
1051	3.810770097	3.601208885		3.55924417		
4.679982991	5.570311157	5.660174875				
ENSG00000269044	107.5974358	143.6774268		132.9805846		
221.0072088	275.985683	218.8110608		128.0851491		
238.6013176	-0.895812769	0.001782488		0.016717109		
AC024075.2	19	16633797	16635269	-		1473
	sense_intronic	"novel transcript, sense intronic C19orf42"				
-	93	155	136	220	302	223
3.452827758	4.639411656	4.276993767		7.221395824		
8.934346545	7.067212532					
ENSG00000112651	986.8883094	1147.565512		1187.047277		
1646.503706	1389.980874	1611.155883		1107.167033		
1549.213487	-0.483982761	0.001784846		0.016728961		MRPL2
6	43054029	43059806		-	2539	
protein_coding	mitochondrial ribosomal protein L2	[Source:HGNC				
Symbol;Acc:HGNC:14056]	-	853	1238	1214	1639	1521
1642	18.37304095	21.49769524		22.14922025		
31.21170325	26.10508496	30.18953945				
ENSG00000132819	495.1795972	675.7473817		805.7058949		
1131.155078	971.4330497	948.8354073		658.8776246		
1017.141178	-0.625204442	0.001786375		0.016733033		RBM38
20	57391407	57409333		+	2686	
protein_coding	RNA binding motif protein 38	[Source:HGNC				
Symbol;Acc:HGNC:15818]	-	428	729	824	1126	1063
967	8.714299327	11.96617853		14.21096792		
20.26905955	17.24589962	16.8060829				
ENSG00000234264	15.04050178	10.19646255		8.800185745		0
0	0	11.34571669	0	5.99540715		
0.001789415	1	DEPDC1-AS1	1	68496676		
68538627	+	1247	antisense	DEPDC1 antisense RNA 1		
[Source:HGNC	Symbol;Acc:HGNC:50592]	-		13	11	9
0	0	0	0.570127004	0.388919922		
0.334332435	0	0	0			
ENSG00000003436	1457.771711	1028.915766		1135.223961		
852.8869105	793.2303736	832.0707605		1207.303813		
826.0626815	0.546744946	0.001792788		0.016782826		TFPI
2	187464230	187565760		-	11714	
protein_coding	tissue factor pathway inhibitor	[Source:HGNC				
Symbol;Acc:HGNC:11760]	-	1260	1110	1161	849	868
848	5.882474296	4.177839167		4.591234296		
3.504319433	3.229037608	3.37937719				
ENSG00000132254	1627.845078	2035.584705		1932.12967		
2551.628684	2475.646408	2552.141566		1865.186484		
2526.472219	-0.437286749	0.001796234		0.01680346		ARFIP2
11	6474683	6481479	-	5312	protein_coding	ADP
ribosylation factor interacting protein 2	[Source:HGNC					
Symbol;Acc:HGNC:17160]	-	1407	2196	1976	2540	2709
2601	14.48540839	18.22670764		17.23182715		

23.11941638	22.22335053	22.85747859			
ENSG00000142669	4225.22404	4708.911796	4062.752419		
5378.511801	5911.759547	5705.768246	4332.296085		
5665.346531	-0.386975605	0.001798167	0.01680346		
SH3BGR13	1	26279176	26281522	+	1786
	protein_coding SH3 domain binding glutamate rich protein like				
3 [Source:HGNC Symbol;Acc:HGNC:15568]	-		3652	5080	4155
5354	6469	5815	111.8263184	125.4053936	
107.7685475	144.9432946	157.8389904	151.9897499		
ENSG00000108946	5637.874246	4921.183607	4947.659986		
3674.747136	3931.425193	4175.072035	5168.905946		
3927.081455	0.396234805	0.00179829	0.01680346		
PRKAR1A 17	68511780	68551319	+	6821	
	protein_coding protein kinase cAMP-dependent type I regulatory				
subunit alpha [Source:HGNC Symbol;Acc:HGNC:9388]	-				4873
5309	5060	3658	4302	4255	39.06996972
34.31615603	34.36409596	25.92966274	27.4840642		
29.12041439					
ENSG00000012061	1420.748938	1445.116829	1435.408075		
1812.259113	1857.877131	2192.03547	1433.757947		
1954.057238	-0.446598328	0.001801288	0.016821193		ERCC1
19	45407333	45478828	-	5576	
	protein_coding "ERCC excision repair 1, endonuclease non-catalytic				
subunit [Source:HGNC Symbol;Acc:HGNC:3433]"	-			1228	1559
1468	1804	2033	2234	12.04398801	12.3269975
12.1956723	15.64281772	15.88814561	18.70279181		
ENSG00000066629	1146.549021	1176.300998	958.2424478		
722.2917416	728.3463223	835.0144071	1093.697489		
761.884157	0.52152005	0.001802931	0.016826259		EML1
14	99737693	99942060	+	8935	
	protein_coding echinoderm microtubule associated protein like 1				
[Source:HGNC Symbol;Acc:HGNC:3330]	-		991	1269	980
719	797	851	6.065600605	6.261826399	
5.080821935	3.890769924	3.887070006	4.446118557		
ENSG00000254470	548.3998343	746.1956684	834.062049		
1264.763982	898.3242595	1132.322709	709.5525172		
1098.470317	-0.629288525	0.001804904	0.016834391		AP5B1
11	65775893	65780802	-	4811	
	protein_coding adaptor related protein complex 5 subunit beta 1				
[Source:HGNC Symbol;Acc:HGNC:25104]	-		474	805	853
1259	983	1154	5.388125435	7.377249667	
8.213270571	12.65294411	8.903827934	11.19738183		
ENSG00000110074	709.2175072	597.8834858	775.394144		
477.1746555	434.0834418	473.9270959	694.1650457		
461.7283977	0.588127362	0.001807452	0.016847879		
FOXRED1 11	126269055	126278131	+	5657	
	protein_coding FAD dependent oxidoreductase domain containing 1				
[Source:HGNC Symbol;Acc:HGNC:26927]	-		613	645	793
475	475	483	5.926100448	5.026983895	
6.493658783	4.059837468	3.659030492	3.985721853		

ENSG00000231925	2670.267548	2817.004517	3789.946661	
1937.83139	2420.814815	2142.974695	3092.406242	
2167.206967	0.512934265	0.001810698	0.016867845	TAPBP
6	33299694	33314387	- 5056	
protein_coding	TAP binding protein [Source:HGNC			
Symbol;Acc:HGNC:11566]	-	2308 3039	3876 1929	2649
2184	24.96453332	26.50071508	35.51232928	
18.44702681	22.83144983	20.16469254		
ENSG00000163597	1819.900716	1758.426314	1735.592189	
1320.015784	1367.134377	1273.617744	1771.306406	
1320.255968	0.423822616	0.001816678	0.016913252	SNHG16
17	76557766	76565348	+ 5362	
processed_transcript	small nucleolar RNA host gene 16 [Source:HGNC			
Symbol;Acc:HGNC:44352]	-	1573 1897	1775 1314	1496
1298	16.04340791	15.59819981	15.33465478	
11.84867459	12.15803479	11.30040266		
ENSG00000178904	1355.959084	1182.789656	1286.782716	
1030.697256	852.6312656	796.7470018	1275.177152	
893.3585077	0.513276519	0.001817972	0.016914994	
DPY19L3 19	32405543	32485895	+ 10781	
protein_coding	dpy-19 like C-mannosyltransferase 3 [Source:HGNC			
Symbol;Acc:HGNC:27120]	-	1172 1276	1316 1026	933
812	5.945156321	5.218258465	5.65456628	
4.601395159	3.771214156	3.515952661		
ENSG00000161277	252.2176453	224.3221761	193.6040864	
313.4284053	477.034856	364.0309577	223.3813026	
384.8314063	-0.786333371	0.001822352	0.016937484	THAP8
19	36034985	36054762	- 1825	
protein_coding	THAP domain containing 8 [Source:HGNC			
Symbol;Acc:HGNC:23191]	THAP	218 242	198 312	522
371	6.53263416	5.846372127	5.025795085	
8.265953193	12.46425232	9.489800371		
ENSG00000103111	1529.503335	1721.348269	1694.524655	
2391.900747	2297.443732	2017.379108	1648.458753	
2235.574529	-0.43922485	0.001822605	0.016937484	MON1B
16	77190835	77202405	+ 6942	
protein_coding	"MON1 homolog B, secretory trafficking associated			
[Source:HGNC Symbol;Acc:HGNC:25020]"	-		1322 1857	1733
2381	2514 2056	10.41457516	11.7940035	
11.5642217	16.58349265	15.78117231	13.82561748	
ENSG00000170909	100.6556658	292.9165605	155.4699482	
377.7214115	315.2816577	447.4342769	183.0140582	
380.145782	-1.050940535	0.001831791	0.017012505	OSCAR
19	54094668	54102692	- 2084	
protein_coding	"osteoclast associated, immunoglobulin-like receptor			
[Source:HGNC Symbol;Acc:HGNC:29960]"	-		87 316	159
376	345 456	2.283054352	6.685337332	
3.534287425	8.723511678	7.214063789	10.21440712	
ENSG00000179119	998.4579261	965.8830888	908.3747286	
1223.576274	1394.550173	1353.096201	957.5719145	

1323.740883	-0.467509064	0.001833195	0.017015214	
SPTY2D1 11	18606401	18634791	- 6005	
protein_coding	SPT2 chromatin protein domain containing 1			
[Source:HGNC Symbol;Acc:HGNC:26818]	-	863	1042	929
1218	1526	1379	7.859456177	7.650479666
7.166467869	9.806984594	11.07388782	10.72006183	
ENSG00000196843	225.6075268	480.160691	422.4089158	
558.5454914	661.6345512	767.3105362	376.0590445	
662.4968596	-0.814824674	0.001845182	0.01711444	ARID5A
2	96536743	96552638	+ 3565	
protein_coding	AT-rich interaction domain 5A [Source:HGNC			
Symbol;Acc:HGNC:17361]	ARID	195 518	432 556	724
782	2.991367631	6.406254437	5.613408765	
7.54078353	8.84988505	10.23984198		
ENSG00000154370	717.3162389	1196.693923	997.3543845	
1384.30879	1567.26969	1436.499521	970.4548488	
1462.692667	-0.590864125	0.001846125	0.01711444	TRIM11
1	228393673	228406840	- 8493	
protein_coding	tripartite motif containing 11 [Source:HGNC			
Symbol;Acc:HGNC:16281]	-	620 1291	1020 1378	1715
1464	3.992319391	6.701917481	5.563415594	
7.844934285	8.799572991	8.046851532		
ENSG00000173905	2263.017038	2123.645064	3110.376762	
2006.142709	1366.220517	1657.273012	2499.012954	
1676.545413	0.576136581	0.001850567	0.01714052	GOLIM4
3	168008677	168095975	- 4647	
protein_coding	golgi integral membrane protein 4 [Source:HGNC			
Symbol;Acc:HGNC:15448]	-	1956 2291	3181 1997	1495
1689	23.01923522	21.7363378	31.70979632	
20.77813716	14.01932546	16.96692003		
ENSG00000111252	2965.292775	2615.856119	3504.429524	
2389.89159	1814.011857	2232.265307	3028.526139	
2145.389585	0.497507005	0.001851181	0.01714052	SH2B3
12	111405948	111451623	+ 5682	
protein_coding	SH2B adaptor protein 3 [Source:HGNC			
Symbol;Acc:HGNC:29605]	-	2563 2822	3584 2379	1985
2275	24.66846291	21.89725813	29.21926098	
20.24391146	15.22361806	18.69072757		
ENSG00000196419	11392.60162	10264.12998	11343.43943	
9228.055548	8089.487635	8115.633562	11000.05701	
8477.725581	0.375748717	0.001857576	0.017189325	XRCC6
22	41621119	41664048	+ 3288	
protein_coding	X-ray repair cross complementing 6 [Source:HGNC			
Symbol;Acc:HGNC:4055]	-	9847 11073	11601 9186	8852
8271	163.7822533	148.4798257	163.4429054	
135.081492	117.3189572	117.4281578		
ENSG00000092199	10924.03214	11244.84429	12251.81415	
8770.972456	8773.968683	9307.810418	11473.56353	
8950.917186	0.358244071	0.001859658	0.017198179	HNRNPC
14	21209136	21269494	- 7309	

protein_coding	heterogeneous nuclear ribonucleoprotein C (C1/C2)						
[Source:HGNC Symbol;Acc:HGNC:5035]	-	9442	12131	12530			
8731	9601	9486	70.64814237	73.17666265			
79.4137245	57.75734786	57.24230397	60.58584846				
ENSG00000198794	21.98227184	38.00499677	42.04533189				
130.5951689	85.90282848	73.59116396	34.01086684				
96.6963871	-1.501562281	0.001874186	0.017322057			SCAMP5	
15	74957219	75021496	+	4873			
protein_coding	secretory carrier membrane protein 5 [Source:HGNC						
Symbol;Acc:HGNC:30386]	-	19	41	43	130	94	
75	0.213231765	0.370955149	0.40876575				
1.28987658	0.840601266	0.718473721					
ENSG00000067221	433.8606284	646.0849452	596.4570339				
858.9143798	849.889686	833.051976	558.8008691				
847.2853473	-0.598994431	0.001875608	0.017324729			STOML1	
15	73978923	73994622	-	10461			
protein_coding	stomatin like 1 [Source:HGNC Symbol;Acc:HGNC:14560]						
-	375	697	610	855	930	849	
1.960436494	2.937605915	2.701214602	3.951792468				
3.874077855	3.788615432						
ENSG00000224431	9.255693406	15.75816939	8.800185745	0			
0	0	11.27134952	0	5.988792942			
0.001879336	1	AC063976.2	5	132199456			
132203487	+	3556	processed_pseudogene	cytoplasmic			
linker associated protein 2 (CLASP2) pseudogene	-	8	17				
9	0	0	0	0.123033378	0.210775985		
0.117241999	0	0	0				
ENSG00000178343	59.00504546	39.85889906	76.26827646	0			
21.93263706	2.943646558	58.37740699	8.292094539				
2.803183202	0.001890802	0.017443065	SHISA3	4			
42397839	42402487	+	1971	protein_coding			
shisa family member 3 [Source:HGNC Symbol;Acc:HGNC:25159]							
-	51	43	78	0	24	3	
1.41507111	0.961868692	1.833202472	0	0.530619511			
0.071052713							
ENSG00000274276	91.39997238	38.00499677	103.6466321				
25.11445555	27.41579632	15.69944831	77.68386709				
22.74323339	1.769566083	0.001891571	0.017443065			CBSL	
21	6444869	6468040	-	4004	protein_coding		
cystathionine-beta-synthase like [Source:HGNC Symbol;Acc:HGNC:51829]							
-	79	41	106	25	30	16	
1.079015629	0.451464645	1.226349483	0.301888908				
0.326501953	0.18653999						
ENSG00000116198	1103.741439	1325.540131	994.4209892				
1674.631896	1438.415447	1777.962521	1141.234186				
1630.336621	-0.514146917	0.001891843	0.017443065			CEP104	
1	3812081	3857214	-	7876	protein_coding		
centrosomal protein 104 [Source:HGNC Symbol;Acc:HGNC:24866]							
954	1430	1017	1667	1574	1812	6.624260152	
8.005054407	5.981604595	10.23366294	8.70878599				

10.73985757						
ENSG00000275956	3.470885027	25.95463194	6.844588913	0		
0	0	12.09003529	0	6.092708838		
0.001898763	1	AC104446.1	3	52732547		
52733867	+	1321	processed_pseudogene	zinc finger		
protein 610 (ZNF610)	pseudogene	-	3	28	7	0
0	0	0.124197585	0.93452123	0.245469579		
0	0	0				
ENSG00000007520	979.9465393	1534.104138	1343.495024			
1687.691413	1820.408876	2260.720557	1285.848567			
1922.940282	-0.579811727	0.001901015	0.017517064	TSR3		
16	1349240	1351911	-	1243	protein_coding	"TSR3,
acp transferase	ribosome maturation factor	[Source:HGNC				
Symbol;Acc:HGNC:14175]"	-	847	1655	1374	1680	1992
2304	37.26550359	58.70307179	51.20567081			
65.34906371	69.83558945	86.52814272				
ENSG000000072121	585.4226079	608.0799484	655.1249388			
998.5507527	792.3165137	895.8497693	616.209165			
895.5723452	-0.538836399	0.00190458	0.017539348			
ZFYVE26 14	67727374	67816590	-	15706		
protein_coding	zinc finger FYVE-type containing 26	[Source:HGNC				
Symbol;Acc:HGNC:20761]"	-	506	656	670	994	867
913	1.761893431	1.84150204	1.9761125			
3.060004096	2.405537337	2.713633676				
ENSG00000107815	1064.404742	1212.452092	1365.006589			
1724.860807	1587.374607	1748.526056	1213.954474			
1686.92049	-0.474088959	0.001910135	0.01757991	TWINK		
10	100987367	100994401	+	4133		
protein_coding	twinkle mtDNA helicase	[Source:HGNC				
Symbol;Acc:HGNC:1160]"	-	920	1308	1396	1717	1737
1782	12.17354694	13.95327959	15.64668966			
20.08658498	18.31441331	20.12743025				
ENSG00000284753	82.14427898	125.138404	98.75764003			
175.8011889	240.3451478	193.2994573	102.013441			
203.148598	-0.991441897	0.001912057	0.017587014			
EEF1AKMT4	3	184249650	184259585	+	1823	
protein_coding	EEF1A lysine methyltransferase 4	[Source:HGNC				
Symbol;Acc:HGNC:53611]"	-	71	135	101	175	263
197	2.129935209	3.264984003	2.566475726			
4.641438459	6.286771527	5.044586733				
ENSG00000122863	476.6682104	452.3521567	599.3904291			
371.6939421	265.9332243	304.176811	509.4702654			
313.9346592	0.69928598	0.001921814	0.017666126	CHST3		
10	71964365	72013564	+	6970		
protein_coding	carbohydrate sulfotransferase 3	[Source:HGNC				
Symbol;Acc:HGNC:1971]"	-	412	488	613	370	291
310	3.232653459	3.08688892	4.074085624			
2.566670756	1.819360697	2.07622756				
ENSG00000188549	431.546705	461.6216681	586.6790497			
278.2681675	215.6709311	370.8994664	493.2824743			

288.2795216	0.775953864	0.001925751	0.017691678	CCDC9B
15	40331452	40340967	- 7510	
protein_coding	coiled-coil domain containing 9B [Source:HGNC			
Symbol;Acc:HGNC:33488]	-	373 498	600 277	236
378	2.71621165	2.923636423	3.700954699	
1.783368324	1.369401073	2.349621452		
ENSG00000204498	268.4151088	333.7024107	409.6975364	
541.4676617	532.7803085	540.6497512	337.2716853	
538.2992405	-0.67300341	0.001932889	0.01774659	
NFKBIL1 6	31546870	31558829	+ 1779	
protein_coding	NFKB inhibitor like 1 [Source:HGNC			
Symbol;Acc:HGNC:7800]	-	232 360	419 539	583
551	7.131924706	8.921964906	10.91039642	
14.64920423	14.28075618	14.45844831		
ENSG00000175426	102.9695891	97.32986979	88.00185745	
36.16481599	29.24351608	46.11712942	96.10043879	
37.17515383	1.370956188	0.001938105	0.017768777	PCSK1
5	96390415	96434143	- 5307	
protein_coding	proprotein convertase subtilisin/kexin type 1			
[Source:HGNC Symbol;Acc:HGNC:8743]	-		89 105	90
36	32 47	0.917139993	0.872316665	
0.785589875	0.327985489	0.262760142	0.413423164	
ENSG00000167658	57720.818	62815.77101	62820.61484	
81912.30365	71461.10083	81761.74559	61119.06795	
78378.38336	-0.358819666	0.001938312	0.017768777	EEF2
19	3976056 3985469	- 4027	protein_coding	
eukaryotic translation elongation factor 2 [Source:HGNC				
Symbol;Acc:HGNC:3214]	-	49890 67766	64247 81539	78197
83327	677.5269691	741.9321314	739.0497584	
979.0051307	846.1883853	965.940004		
ENSG00000131370	111.0683209	68.59438442	100.7132369	
256.1674466	155.3561792	177.600009	93.45864739	
196.3745449	-1.07330475	0.001939818	0.017768777	SH3BP5
3	15254853	15341368	- 4159	
protein_coding	SH3 domain binding protein 5 [Source:HGNC			
Symbol;Acc:HGNC:10827]	-	96 74	103 255	170
181	1.262341981	0.784470754	1.1472307	
2.964506975	1.781224249	2.031588241		
ENSG00000167700	193.2125998	304.9669253	433.1646984	
138.6317946	86.81668835	205.0740436	310.4480745	
143.5075089	1.115262698	0.001939955	0.017768777	MFSD3
8	144509074	144511213	+ 1823	
protein_coding	major facilitator superfamily domain containing 3			
[Source:HGNC Symbol;Acc:HGNC:25157]	-		167 329	443
138	95 209	5.009847605	7.956886942	
11.25691828	3.660105756	2.270887054	5.351871204	
ENSG00000138771	242.9619519	231.7377852	374.4967934	
118.5402302	191.9105743	123.6331555	283.0655102	
144.6946533	0.967304695	0.00195058	0.017855396	
SHROOM3 4	76435100	76783253	+ 13958	

protein_coding	shroom family member 3 [Source:HGNC					
Symbol;Acc:HGNC:30422]	-	210	250	383	118	210
126	0.822793427	0.789679334	1.271095074			
0.408752131	0.655623782	0.42139889				
ENSG00000224184	151.5619795	177.974619	263.0277739			
59.2701151	85.90282848	122.6519399	197.5214575			
89.27496117	1.146326482	0.001951901	0.017856796			
MIR3681HG	2	11848622	12578348	+		3876
lincRNA	MIR3681 host gene [Source:HGNC Symbol;Acc:HGNC:52001]					
-	131	192	269	59	94	125
1.848341608	2.183993886	3.2149259	0.735985842			
1.056824038	1.505470606					
ENSG00000171617	1133.822442	908.412118	1432.47468			
808.6854687	754.8482587	751.6110879	1158.236413			
771.7149385	0.585734135	0.00195616	0.017878508			ENC1
5	74627406	74641424	-	5858		
protein_coding	ectodermal-neural cortex 1 [Source:HGNC					
Symbol;Acc:HGNC:3345]	-	980	980	1465	805	826
766	9.148953517	7.375826058	11.58485795			
6.644276994	6.144538613	6.104153386				
ENSG0000020181	400.3087398	679.4551862	1093.178629			
476.1700772	353.6637726	325.7635525	724.3141851			
385.1991341	0.91205147	0.001956613	0.017878508			ADGRA2
8	37784191	37844896	+	7061		
protein_coding	adhesion G protein-coupled receptor A2 [Source:HGNC					
Symbol;Acc:HGNC:17849]	-	346	733	1118	474	387
332	2.679813682	4.576903134	7.334627254			
3.245737152	2.38837959	2.194916019				
ENSG00000108448	455.8429002	550.6089777	575.9232671			
849.8731758	734.7433414	758.4795965	527.4583817			
781.0320379	-0.565180138	0.001961936	0.017909123			
TRIM16L 17	18697998	18736118	+	4329		
protein_coding	tripartite motif containing 16 like [Source:HGNC					
Symbol;Acc:HGNC:32670]	-	394	594	589	846	804
773	4.977409229	6.049685768	6.302751215			
9.448959635	8.093326494	8.33562069				
ENSG00000090432	1493.637523	1467.363656	1485.275794			
2389.89159	1914.536443	1838.797883	1482.092324			
2047.741972	-0.466316369	0.001962307	0.017909123			MUL1
1	20499448	20508161	-	2438		
protein_coding	mitochondrial E3 ubiquitin protein ligase 1					
[Source:HGNC Symbol;Acc:HGNC:25762]	-		1291	1583		1519
2379	2095	1874	28.95924624	28.62735157		
28.86200705	47.18043679	37.44630099	35.88243618			
ENSG00000178252	3974.163356	5083.400056	4924.192824			
6440.350981	5604.702628	6968.592619	4660.585412			
6337.882076	-0.443231887	0.001963519	0.017909498			WDR6
3	49007062	49015953	+	5304		
protein_coding	WD repeat domain 6 [Source:HGNC Symbol;Acc:HGNC:12758]					
-	3435	5484	5036	6411	6133	7102

35.41750295	45.58562239	43.9829811	58.44178578	
50.38810748	62.50621312			
ENSG00000198840	4653.29986	9653.269181	9898.253367	
15744.75447	15194.74818	24646.17142	8068.274136	
18528.55802	-1.199370095	0.001969759	0.017955698	MT-ND3
MT	10059 10404	+ 346	protein_coding	
mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 3				
[Source:HGNC Symbol;Acc:HGNC:7458]				
		-	4022 10414	10123
15673	16627 25118	635.7123963	1327.013779	
1355.300485	2190.167102	2094.095077	3388.870655	
ENSG00000128626	964.9060375	1550.789259	1410.963115	
1728.87912	1936.46908	2186.148177	1308.886137	
1950.498793	-0.574697976	0.001980687	0.018044554	MRPS12
19	38930548	38933162	+ 2144	
protein_coding mitochondrial ribosomal protein S12 [Source:HGNC				
Symbol;Acc:HGNC:10380]				
	-	834 1673	1443 1721	2119
2228	21.27335475	34.4036973	31.17769512	
38.811221	43.06899854	48.51057711		
ENSG00000142541	40871.98512	38603.80721	36258.72087	
44248.65695	53761.46273	52794.30103	38578.17107	
50268.14023	-0.381878228	0.00198455	0.018068979	RPL13A
19	49487554	49492308	+ 2369	
protein_coding ribosomal protein L13a [Source:HGNC				
Symbol;Acc:HGNC:10304]				
	-	35327 41646	37082 44047	58829
53805	815.523369	775.0722571	725.104407	
898.9850926	1082.143869	1060.238598		
ENSG00000132481	414.1922799	602.5182416	766.5939583	
213.9751613	307.0569188	446.4530614	594.4348266	
322.4950472	0.882888736	0.001987639	0.018086328	TRIM47
17	75874161	75878575	- 3142	
protein_coding tripartite motif containing 47 [Source:HGNC				
Symbol;Acc:HGNC:19020]				
	-	358 650	784 213	336
455	6.231198104	9.120972239	11.55878905	
3.277741043	4.660061996	6.760070914		
ENSG00000160145	159.6607112	130.7001109	155.4699482	
63.28842799	63.05633154	83.40331915	148.6102568	
69.91602623	1.087434657	0.001990143	0.018098341	KALRN
3	124080023	124726325	+ 24490	
protein_coding kalirin RhoGEF kinase [Source:HGNC				
Symbol;Acc:HGNC:4814]				
	-	138 141	159 63	69
85	0.308166208	0.25384247	0.300753573	
0.124380695	0.122777533	0.162022816		
ENSG00000072832	279.9847255	370.7804563	306.0509043	
614.8018719	426.7725628	513.1757167	318.9386954	
518.2500504	-0.698744297	0.001993715	0.01812005	CRMP1
4	5748084 5893058	- 5823	protein_coding	
collapsin response mediator protein 1 [Source:HGNC				
Symbol;Acc:HGNC:2365]				
	-	242 400	313 612	467
523	2.272810822	3.02863655	2.490003762	
5.081662859	3.494851189	4.19276899		

ENSG00000125817	2293.098041	3320.338987	3982.572949	
4829.007513	4186.392098	5115.076503	3198.669992	
4710.158705	-0.557932812	0.002000368	0.018159282	CENPB
20	3783851	3786690 -	2840	protein_coding
centromere protein B [Source:HGNC Symbol;Acc:HGNC:1852]	-			1982
3582	4073	4807	4581 5213	38.16629676
55.60850243	66.43524269	81.83837523	70.29113395	
85.68709525				
ENSG00000227500	2191.285414	2811.44281	3081.042809	
4341.787076	3306.345036	3778.660965	2694.590344	
3808.931026	-0.498901244	0.002000408	0.018159282	SCAMP4
19	1905214	1926013 +	6953	protein_coding
secretory carrier membrane protein 4 [Source:HGNC Symbol;Acc:HGNC:30385]	-			
3851	14.89712487	1894 3033	3151 4322	3618
30.05479359	22.67539864	19.23242905	20.99319934	
ENSG00000178458	143.4632478	25.85516568		
42.19228532	59.40089203	90.8412118	126.1359957	
50.21798444	1.255624265	49.06077597	120.1468184	
H3F3AP6 4	139698144	0.002002817	0.018170364	
processed_pseudogene "H3 histone, family 3A, pseudogene 6 [Source:HGNC Symbol;Acc:HGNC:42982]"	-			
42	65	50	16.49964408	10.51279539
14.53952921	4.940929817	6.8917598	5.679030724	
ENSG00000174516	249.903722	383.7577723	236.6272167	
465.1197168	413.9785245	639.7525187	290.096237	
506.2835867	-0.801825021	0.002011105	0.018234719	PELI3
11	66466327	66477337	+ 3926	
protein_coding pellino E3 ubiquitin protein ligase family member 3 [Source:HGNC Symbol;Acc:HGNC:30010]	-			
463	453	652	3.008833589	4.64926182
2.855403756	5.702061699	5.028130079	7.752527872	
ENSG00000168917	301.9669974	255.8385149	216.09345	
144.659264	162.6670582	81.44088812	257.9663207	
129.5890701	0.99173586	0.002012296	0.018234719	
SLC35G2 3	136818647	136855892	+ 4287	
protein_coding solute carrier family 35 member G2 [Source:HGNC Symbol;Acc:HGNC:28480]	-			
83	3.329520832	261 276	221 144	178
1.624090497	1.809360548	2.8385043	2.38803807	
ENSG00000065802	1735.442514	0.903796478		
2315.552802	1982.162074	1615.675838	1515.587545	
2194.32194	-0.435931735	2285.250945	1622.235299	
2	238426742	0.002029378	0.018371092	ASB1
protein_coding ankyrin repeat and SOCS box containing 1 [Source:HGNC Symbol;Acc:HGNC:16011]	-			
2329	11.07051345	1500 1743	1550 2305	2169
15.04021132	12.7555721	10.37082097	9.689825275	
ENSG00000070371	325.1062309	14.67227021		
100.4578222	189.1689946	325.3598504	328.5402678	
		223.7171384	326.3354497	

171.1146518	0.93070056	0.002029749	0.018371092	CLTCL1
22	19179473	19291716	- 10049	
protein_coding	clathrin heavy chain like 1	[Source:HGNC		
Symbol;Acc:HGNC:2093]	-	281 351	336 100	207
228	1.529248934	1.539991161	1.548883977	
0.481147651	0.897648061	1.05915138		
ENSG0000088899	85.615164	234.5186386	214.1378531	
311.4192488	344.5251738	436.6409062	178.0905519	
364.1951096	-1.028513261	0.002032161	0.018382038	LZTS3
20	3162617 3173592	- 5395	protein_coding	
leucine zipper tumor suppressor	family member 3	[Source:HGNC		
Symbol;Acc:HGNC:30139]	-	74 253	219 310	377
445	0.750127321	2.067583369	1.880421126	
2.778250885	3.045148658	3.850477569		
ENSG00000149636	741.6124341	637.7423849	678.5921008	
412.8816493	522.7278499	435.6596906	685.9823066	
457.0897299	0.584719203	0.002038	0.018423953	DSN1
20	36751791	36773818	- 2739	
protein_coding	"DSN1 homolog, MIS12 kinetochore complex component			
[Source:HGNC	Symbol;Acc:HGNC:16165]"	-	641 688	694
411	572 444	12.79854825	11.07465903	
11.73734564	7.255227017	9.100444267	7.567230688	
ENSG00000257243	5.784808379	2.780853423	5.866790497	
68.3113191	27.41579632	10.79337071	4.810817433	
35.50682871	-2.890808995	0.002041998	0.018449189	
AC020612.1	12 49595148	49595688	+ 541	
processed_pseudogene	Protein DJ-1 (PARK7)	pseudogene	-	
5	3 6	68 30	11 0.50543749	
0.244488225	0.513755449	6.077330627	2.416476563	
0.949164433				
ENSG00000161904	1602.391921	2359.090653	1859.772588	
2693.274213	2991.977239	2563.916152	1940.418387	
2749.722535	-0.502434321	0.002046841	0.018482017	LEMD2
6	33771202	33789136	- 6788	
protein_coding	LEM domain containing 2	[Source:HGNC		
Symbol;Acc:HGNC:21244]	-	1385 2545	1902 2681	3274
2613	11.15841867	16.53026862	12.97989367	
19.09660639	21.01819607	17.96981524		
ENSG00000167962	1317.779349	1918.788862	1940.929856	
2644.04988	2312.97935	2463.832169	1725.832689	
2473.620466	-0.518622756	0.002049276	0.01849308	ZNF598
16	1997654 2009823	- 4701	protein_coding	zinc
finger protein 598	[Source:HGNC	Symbol;Acc:HGNC:28079]	-	1139
2070	1985 2632	2531 2511	13.25037549	
19.4139565	19.56017409	27.07053571	23.4617548	
24.93460526				
ENSG00000170385	1155.804714	1368.179884	1385.540356	
895.0791958	984.227088	926.2674504	1303.174985	
935.1912447	0.479049248	0.002055569	0.018538929	
SLC30A1 1	211571568	211578742	- 5474	

protein_coding	solute carrier family 30 member 1 [Source:HGNC					
Symbol;Acc:HGNC:11012]	-	999	1476	1417	891	1077
944	9.980571446	11.88818411	11.99133437			
7.869989038	8.57372418	8.050321727				
ENSG00000135298	56.69112211	63.03267758	81.15726854			
30.13734666	1.827719755	8.830939675	66.96035608			
13.5986687	2.307463545	0.002057331	0.018543879			ADGRB3
6	68635367	69389511	+	6490		
protein_coding	adhesion G protein-coupled receptor B3 [Source:HGNC					
Symbol;Acc:HGNC:945]	-	49	68	83	30	2
9	0.412901153	0.461953406	0.592428375			
0.223500127	0.013429007	0.0647357				
ENSG00000197381	598.1491863	630.3267758	595.4792354			
1049.784242	774.0393162	857.582364	607.9850659			
893.8019741	-0.55545543	0.002060671	0.018545111			ADARB1
21	45073853	45226560	+	10049		
protein_coding	"adenosine deaminase, RNA specific B1 [Source:HGNC					
Symbol;Acc:HGNC:226]"	-	517	680	609	1045	847
874	2.813600352	2.98345866	2.807352208			
5.027992957	3.67298506	4.060080292				
ENSG00000139083	814.5010197	710.0445739	948.4644637			
641.9254839	518.1585505	452.3403545	824.3366858			
537.4747963	0.617148387	0.002060912	0.018545111			ETV6
12	11649854	11895402	+	7075		
protein_coding	ETS variant 6 [Source:HGNC Symbol;Acc:HGNC:3495]					
ETS	704	766	970	639	567	461
5.441779342	4.773492927	6.351082378	4.366923967			
3.4923295	3.041728991					
ENSG00000147536	861.9364484	725.8027433	996.3765861			
460.0968257	617.7692771	613.2596997	861.3719259			
563.7086008	0.611203776	0.002061107	0.018545111			GINS4
8	41529206	41545046	+	5475		
protein_coding	GINS complex subunit 4 [Source:HGNC					
Symbol;Acc:HGNC:28226]	-	745	783	1019	458	676
625	7.44160925	6.305384815	8.621692242			
4.044665131	5.380481843	5.328953488				
ENSG00000157423	16.19746346	46.34755704	15.64477466			
93.42577465	82.24738897	79.47845708	26.06326505			
85.05054023	-1.697755241	0.002074894	0.018658181			HYDIN
16	70807378	71230722	-	23408		
protein_coding	"HYDIN, axonemal central pair apparatus protein					
[Source:HGNC Symbol;Acc:HGNC:19368]"	-		14	50		16
93	90	81	0.032708335	0.094175873		
0.031663442	0.192096679	0.167547055	0.161535041			
ENSG00000134954	3724.259634	2854.082563	3460.428595			
2465.234957	2641.968906	2238.1526	3346.256931			
2448.452154	0.450353442	0.002077828	0.018671411			ETS1
11	128458761	128587558	-	7149		
protein_coding	"ETS proto-oncogene 1, transcription factor					
[Source:HGNC Symbol;Acc:HGNC:3488]"	ETS		3219	3079		3539

	2454	2891	2281	24.62466848	18.98883627	
	22.93177761	16.59703378		17.62225139	14.89450327	
	ENSG00000143924	1548.014722		1425.650855	1500.920569	
	1119.100139	1109.425891		1082.280718	1491.528715	
	1103.602249	0.434366443		0.002079927	0.018671411	EML4
	2	42169350		42332548	+ 8357	
	protein_coding	echinoderm microtubule associated protein like 4				
	[Source:HGNC Symbol;Acc:HGNC:1316]			-	1338 1538	1535
	1114	1214	1103	8.755892563	8.114091322	
	8.508645571	6.445194164		6.330337754	6.161282842	
	ENSG00000113594	472.0403637		329.9946061	548.5449115	
	303.3826231	272.3302435		188.3933797	450.1932938	
	254.7020821	0.821253131		0.00208003	0.018671411	LIFR
	5	38474963		38608354	- 11864	
	protein_coding	LIF receptor alpha [Source:HGNC Symbol;Acc:HGNC:6597]				
	-	408	356	561 302	298 192	
	1.880718245	1.322978596		2.19045421	1.230770339	
	1.094570461	0.755468093				
	ENSG00000246859	135.3645161		88.98730952	111.4690194	
	65.29758443	25.58807657		31.39889662	111.9402817	
	40.76151921	1.458857129		0.002081878	0.018677036	
	STAR4-AS1	5	111512226	111739726	+	5647
	antisense	STAR4 antisense RNA 1 [Source:HGNC				
	Symbol;Acc:HGNC:44117]	-	117	96	114 65	28
	32	1.133085773		0.749527209	0.935167746	
	0.556540515	0.216072174		0.264532007		
	ENSG00000267786	0	0	0.977798416	25.11445555	
	7.310879019	12.75580175		0.325932805		
	15.06037877	-5.369414145		0.002082919	1	AF038458.3
	19	35947115		35959192	+ 500	
	lincRNA novel transcript			- 0	0	1 25
	8	13	0	0	0.092647233	2.417526375
	0.697234038	1.213722446				
	ENSG00000076924	2023.525971		2010.557024	1799.149086	
	2570.71567	2570.687835		2557.047644	1944.410694	
	2566.150383	-0.400385326		0.002086963	0.018711673	XAB2
	19	7619525 7629565	-	4673	protein_coding	XPA
	binding protein 2 [Source:HGNC Symbol;Acc:HGNC:14089]			-		1749
	2169	1840 2559		2813 2606	20.46862838	
	20.46433935	18.23998588		26.47742347	26.23206917	
	26.03302684					
	ENSG00000161692	311.2226908		443.0826453	622.8575911	
	294.3414191	217.4986508		259.0408971	459.0543091	
	256.9603223	0.838697875		0.002088282	0.018712526	DBF4B
	17	44708608		44752264	+ 7146	
	protein_coding	DBF4 zinc finger B [Source:HGNC Symbol;Acc:HGNC:17883]				
	-	269	478	637 293	238 264	
	2.058656941	2.949163449		4.129323201	1.982466353	
	1.451351289	1.724594318				
	ENSG00000086544	531.0454092		510.7500786	425.342311	

746.401619	797.799673	648.5834584	489.0459329	
730.9282501	-0.58039882	0.002095974	0.018770444	ITPKC
19	40717103	40740860	+ 3385	
protein_coding	inositol-trisphosphate 3-kinase C [Source:HGNC			
Symbol;Acc:HGNC:14897]	-	459 551	435 743	873
661	7.415641484	7.176734563	5.952961033	
10.61283366	11.23865057	9.115674777		
ENSG00000279713	28.92404189	21.31987624	44.00092873	0
8.224738897	0.981215519	31.41494895	3.068651472	
3.334338918	0.002101009	0.018804518	AC080038.3	
17	62679403	62681354	- 1952	TEC
TEC	- 25	23 45	0 9	1
0.700414145	0.519495728	1.067911237	0	
0.200919132	0.023914771			
ENSG00000169217	1844.196911	2309.035292	2172.668081	
2711.356621	2916.126869	2883.792412	2108.633428	
2837.091967	-0.427697192	0.00211035	0.018877074	CD2BP2
16	30350766	30355361	- 3773	
protein_coding	CD2 cytoplasmic tail binding protein 2 [Source:HGNC			
Symbol;Acc:HGNC:1656]	-	1594 2491	2222 2699	3191
2939	23.10448139	29.10857065	27.28096354	
34.58735057	36.8551851	36.36292554		
ENSG00000144021	3078.675019	3000.540843	2910.905885	
3632.554851	4124.249627	3956.260975	2996.707249	
3904.355151	-0.381835807	0.002113078	0.01889042	CIA01
2	96266132	96273349	+ 4031	
protein_coding	cytosolic iron-sulfur assembly component 1			
[Source:HGNC Symbol;Acc:HGNC:14280]	-		2661 3237	2977
3616	4513 4032	36.10162819	35.40493971	
34.21121453	43.37273813	48.78778858	46.69321321	
ENSG00000168916	232.5492968	98.25682093	309.9620979	
131.5997471	44.77913399	65.7414398	213.5894052	
80.70677363	1.405142955	0.002121719	0.018956582	ZNF608
5	124636913	124748807	- 6922	
protein_coding	zinc finger protein 608 [Source:HGNC			
Symbol;Acc:HGNC:29238]	-	201 106	317 131	49
67	1.588031728	0.675162369	2.121436922	
0.915041766	0.308477209	0.451844753		
ENSG00000181027	490.5517505	648.8657986	933.7974874	
1315.997471	904.7212786	1160.77796	691.0716788	
1127.16557	-0.704711703	0.002123886	0.018964863	FKRP
19	46746046	46776988	+ 5081	
protein_coding	fukutin related protein [Source:HGNC			
Symbol;Acc:HGNC:17997]	-	424 700	955 1310	990
1183	4.563639962	6.074112105	8.706761185	
12.46589077	8.490721527	10.86879971		
ENSG00000184205	319.3214225	361.5109449	275.7391534	
486.2158595	430.4280023	646.6210273	318.8571736	
521.0882964	-0.70811174	0.002125606	0.018967242	TSPYL2
X	53082367	53088540	+ 4948	

protein_coding	TSPY like 2 [Source:HGNC Symbol;Acc:HGNC:24358] -						
	276	390	282	484	471	659	3.050521596
	3.475112544		2.640109095		4.729518049		4.148105696
	6.217299081						
ENSG00000268001	123.7948993		135.3348666		85.06846221		
197.9019097	217.4986508		247.2663109		114.7327427		
220.8889572	-0.94536973		0.002126634		0.018967242		CARD8-
AS1	19	48255675	48258199		+	1969	
antisense	CARD8 antisense RNA 1 [Source:HGNC						
Symbol;Acc:HGNC:51408]	-	107	146	87	197	238	
	252	2.971890299	3.269197044		2.046802752		
4.837508337	5.267321641		5.974490302				
ENSG00000142156	28193.99908		21452.43025		40721.39284		
12548.18657	13236.34646		18806.95786		30122.60739		
14863.8303	1.019040674		0.002128743		0.018974982		COL6A1
	21	45981737	46005050		+	5343	
protein_coding	collagen type VI alpha 1 chain [Source:HGNC						
Symbol;Acc:HGNC:2211]	-	24369	23143	41646	12491	14484	
	19167	249.4291728	190.9714472		361.0693103		
113.0350812	118.1304721		167.4615106				
ENSG00000261212	10.41265508		14.83121825		7.822387329		0
	0	11.02208689	0		5.955919058		
0.002129115	1	AC234778.2	X		141173235		
141173588	-	354	lincRNA novel transcript				-
	9	16	8	0	0	1.390381435	
	1.992740184	1.046861386	0	0	0	0	
ENSG00000205609	711.5314306		121.4305995		787.127725		
143.6546857	55.74545252		85.36575019		540.0299183		
94.92196282	2.50845686		0.002132342		0.018995987		EIF3CL
	16	28379579	28403879		-	3091	
protein_coding	eukaryotic translation initiation factor 3 subunit C						
like [Source:HGNC Symbol;Acc:HGNC:26347]	-	615	131				
	805	143	61	87	10.88105044	1.868556562	
	12.0642223	2.236857144	0.859982132		1.313912013		
ENSG00000132275	748.5542042		865.7723656		840.9066379		
1330.061566	1158.774325		1022.426571		818.4110692		
1170.420821	-0.515531448		0.002141254		0.019064266		RRP8
	11	6595075	6603620	-	6922	protein_coding	
ribosomal RNA processing 8 [Source:HGNC Symbol;Acc:HGNC:29030]	-						
	647	934	860	1324	1268	1042	5.111724021
	5.949072194	5.755317831	9.248208379		7.982634713		
	7.027197504						
ENSG00000138668	6263.790512		7119.911713		7573.048733		
5315.223373	4449.583743		5782.303056		6985.583653		
5182.370057	0.430929064		0.002144221		0.019079574		HNRNPD
	4	82352498	82374503		-	6981	
protein_coding	heterogeneous nuclear ribonucleoprotein D [Source:HGNC						
Symbol;Acc:HGNC:5036]	-	5414	7681	7745	5291	4869	
	5893	42.41264195	48.51031392		51.39326864		
36.64555808	30.39350137		39.40622556				

ENSG00000135686	1089.857899	1112.341369	1167.491309	
1699.746352	1397.291753	1530.69621	1123.230192	
1542.578105	-0.457391357	0.002151009	0.019128835	KLHL36
16	84648525	84667686	+ 9995	
protein_coding	kelch like family member 36 [Source:HGNC			
Symbol;Acc:HGNC:17844]	-	942 1200	1194 1692	1529
1560	5.154218401	5.293371875	5.533806691	
8.185001753	6.66627591	7.285977667		
ENSG00000105928	1465.870443	1495.17219	1199.758657	
2249.250639	1794.820799	1804.45534	1386.933763	
1949.508926	-0.491206951	0.002154197	0.019146051	GSDME
7	24698351	24758113	- 8843	
protein_coding	gasdermin E [Source:HGNC Symbol;Acc:HGNC:2810]			-
1267	1613 1227	2239 1964	1839 7.835589987	
8.042085765	6.427578561	12.2420933	9.678330671	
9.707963617				
ENSG00000196371	417.6631649	396.7350883	443.9204809	
700.1910208	551.971366	640.7337342	419.4395781	
630.9653736	-0.588862869	0.002158811	0.019175914	FUT4
11	94543840	94549898	+ 6059	
protein_coding	fucosyltransferase 4 [Source:HGNC			
Symbol;Acc:HGNC:4015]	-	361 428	454 697	604
653	3.258374229	3.114417095	3.471021919	
5.562026351	4.344047685	5.031045727		
ENSG00000120334	642.11373	440.3017919	635.5689705	
318.4512964	434.9973016	268.8530523	572.6614975	
340.7672168	0.747573647	0.002162091	0.019193894	CENPL
1	173799550	173824720	- 4914	
protein_coding	centromere protein L [Source:HGNC			
Symbol;Acc:HGNC:17879]	-	555 475	650 317	476
274	6.176643614	4.261793625	6.127462475	
3.119071472	4.221146239	2.602923753		
ENSG00000160097	41.65062033	11.12341369	16.62257307	0
0	3.924862078	23.13220236	1.308287359	
4.150671079	0.002166007	0.019217496	FNDC5 1	
32862268	32872482	- 3139	protein_coding	
fibronectin type III domain containing 5 [Source:HGNC				
Symbol;Acc:HGNC:20240]	-	36 12	17 0	0
4	0.627199781	0.168548111	0.250876546	0
0	0.059485992			
ENSG00000126001	1723.872897	1466.436705	1570.344256	
2794.736614	1793.906939	2287.213376	1586.884619	
2291.95231	-0.53045642	0.002172389	0.019262939	CEP250
20	35455164	35519280	+ 16295	
protein_coding	centrosomal protein 250 [Source:HGNC			
Symbol;Acc:HGNC:1859]	-	1490 1582	1606 2782	1963
2331	5.000651812	4.280416922	4.565555557	
8.254750996	5.249579687	6.677808253		
ENSG00000186716	750.8681275	855.575903	968.020432	
1266.773138	1127.703089	1253.993434	858.1548208	

1216.156554	-0.502264907	0.002186374	0.019375705	BCR
22	23179704	23318037	+ 12389	
protein_coding	"BCR, RhoGEF and GTPase activating protein [Source:HGNC Symbol;Acc:HGNC:1014]"			
1261	1234	1278	2.86485837	3.284727951
3.701701521	4.921302379	4.340477452	4.815491679	
ENSG00000178860	414.1922799	657.2083589	559.300694	
838.8228154	881.8747817	783.0099845	543.5671109	
834.5691939	-0.6170627	0.002188949	0.019387289	MSC
8	71841549	71844468	- 2113	
protein_coding	musculin [Source:HGNC Symbol;Acc:HGNC:7321]			bHLH
358	709	572	835	965
14.79383246	12.5400419	19.10681044	19.90152764	
17.629883				
ENSG00000115594	318.1644608	140.8965734	201.4264737	
115.5264955	116.9740643	62.79779325	220.1625027	
98.43278436	1.158828766	0.002203441	0.019504344	IL1R1
2	102064544	102179874	+ 7083	
protein_coding	interleukin 1 receptor type 1 [Source:HGNC Symbol;Acc:HGNC:5993]			
64	2.123294158	0.946150676	1.34726316	128
0.785021977	0.787501384	0.42180213		
ENSG00000285106	119.1670526	136.2618177	74.31267963	
232.0575693	217.4986508	201.1491815	109.91385	
216.9018005	-0.980769188	0.002216076	0.019604831	
AC016831.6	7	130791264	131110161	- 11088
lincRNA	novel transcript			
231	238	205	0.508017555	0.58451825
0.317513965	1.007302656	0.935367633	0.863071309	
ENSG00000168140	208.2531016	323.5059482	540.7225241	
212.9705831	119.7156439	186.4309487	357.493858	
173.0390586	1.048789122	0.002224549	0.019668407	VASN
16	4371848	4383528	+ 2806	protein_coding
vasorin [Source:HGNC Symbol;Acc:HGNC:18517]				- 180 349
553	212	131	190	3.508161282
9.129351326	3.652997801	2.034427542	3.160908833	
ENSG00000156860	794.8326712	1712.078757	1678.879881	
2079.47692	2252.664598	2444.207859	1395.26377	
2258.783125	-0.694200099	0.002228033	0.019680549	FBRS
16	30658431	30670814	+ 7218	
protein_coding	fibrosin [Source:HGNC Symbol;Acc:HGNC:20442]			-
687	1847	1717	2070	2465
11.28194494	11.01934736	13.86611138	14.88190897	
16.11027247				
ENSG00000112137	98.34174244	104.7454789	61.60130022	
228.0392564	150.7868798	176.6187935	88.22950719	
185.1483099	-1.069434398	0.002228497	0.019680549	
PHACTR1	6	12716805	13290484	+ 11198
protein_coding	phosphatase and actin regulator 1 [Source:HGNC Symbol;Acc:HGNC:20990]			
	-	85	113	63
			227	165

180	0.415119539	0.444909765	0.26061688	
0.980136608	0.642099126	0.750374519		
ENSG00000185896	4946.011164	5139.017125	6816.232759	
4548.730189	3295.378718	4105.405733	5633.753683	
3983.171547	0.500348837	0.002247451	0.019836482	LAMP1
13	113297241	113323672	+ 5739	
protein_coding	lysosomal associated membrane protein 1 [Source:HGNC			
Symbol;Acc:HGNC:6499]	-	4275 5544	6971 4528	3606
4184	40.73752191	42.59130576	56.26797862	
38.14796802	27.38092372	34.03309821		
ENSG00000139343	1005.399696	954.7596751	1070.689266	
550.5088657	720.1215834	788.8972777	1010.282879	
686.5092422	0.557139644	0.002252282	0.019867651	SNRPF
12	95858928	95903828	+ 3043	
protein_coding	small nuclear ribonucleoprotein polypeptide F			
[Source:HGNC	Symbol;Acc:HGNC:11162]			
548	788 804	15.61753676	14.92344984	1095
16.66919483	8.707226114	11.28451408	12.33389174	
ENSG00000276023	1175.473063	1277.338672	953.3534558	
1548.05504	1649.517079	1567.001185	1135.388397	
1588.191101	-0.484250173	0.002254738	0.019877845	DUSP14
17	37489831	37513501	+ 2499	
protein_coding	dual specificity phosphatase 14 [Source:HGNC			
Symbol;Acc:HGNC:17007]	-	1016 1378	975 1541	1805
1597	22.23423362	24.31178909	18.07343974	
29.81519122	31.47527606	29.83215974		
ENSG00000140374	1851.138681	1827.94765	1861.728184	
1457.643	1392.722453	1302.072994	1846.938172	
1384.146149	0.416142099	0.002259128	0.019897049	ETFA
15	76215355	76311472	- 5031	
protein_coding	electron transfer flavoprotein subunit alpha			
[Source:HGNC	Symbol;Acc:HGNC:3481]			
1451	1524 1327	17.39243456	17.28170356	1904
17.53133879	13.94486492	13.20046553	12.3129649	
ENSG00000204713	2037.409511	2275.665051	2427.873467	
3251.819705	2879.572474	2870.055394	2246.982676	
3000.482524	-0.416875158	0.002259541	0.019897049	TRIM27
6	28903002	28923989	- 7986	
protein_coding	tripartite motif containing 27 [Source:HGNC			
Symbol;Acc:HGNC:9975]	-	1761 2455	2483 3237	3151
2925	12.05937396	13.55364632	14.40289748	
19.59812891	17.19403059	17.09789322		
ENSG00000123131	2269.958808	2259.906881	2458.185218	
1846.414772	1407.344211	1820.154789	2329.350302	
1691.304591	0.462060209	0.002260821	0.019897049	PRDX4
X	23664262	23686399	+ 1904	
protein_coding	peroxiredoxin 4 [Source:HGNC			
Symbol;Acc:HGNC:17169]	-	1962 2438	2514 1838	1540 1855
56.35426265	56.45477946	61.16469087	46.67451131	
35.24620595	45.48026701			

ENSG00000188177	345.931541	318.8711925	249.3385961	
648.9575314	500.7952128	387.5801302	304.7137765	
512.4442915	-0.750543118	0.002286427	0.020110823	ZC3H6
2	112275594	112340063	+ 11803	
protein_coding	zinc finger CCCH-type containing 6 [Source:HGNC			
Symbol;Acc:HGNC:24762]	-	299 344	255 646	548
395	1.385394611	1.284990726	1.000806758	
2.646313713	2.023236956	1.562250687		
ENSG00000083444	3953.338046	3759.713827	5439.492589	
2640.031567	2797.325085	3662.877534	4384.181487	
3033.411395	0.531434106	0.002288964	0.020121561	PL0D1
1	11934205	11975538	+ 5320	
protein_coding	"procollagen-lysine,2-oxoglutarate 5-dioxygenase 1			
[Source:HGNC	Symbol;Acc:HGNC:9081]"	-	3417 4056	5563
2628	3061 3733	35.12594842	33.6140059	
48.43952585	23.88443351	25.07323061	32.75611548	
ENSG00000175643	430.3897434	432.8861828	394.0527617	
154.7050462	276.8995429	286.5149317	419.1095626	
239.3731736	0.807257297	0.002293754	0.020152082	RMI2
16	11249619	11381662	+ 3632	
protein_coding	RecQ mediated genome instability 2 [Source:HGNC			
Symbol;Acc:HGNC:28349]	-	372 467	403 154	303
292	5.601338423	5.668980964	5.139982757	
2.050104965	3.635426649	3.753038741		
ENSG00000171858	10959.89795	13980.27711	15966.47034	
15279.63476	20373.59211	22807.37353	13635.54847	
19486.8668	-0.515076898	0.002295162	0.020152864	RPS21
20	62387116	62388520	+ 1023	
protein_coding	ribosomal protein S21 [Source:HGNC			
Symbol;Acc:HGNC:10409]	-	9473 15082	16329 15210	22294
23244	506.4150645	650.0058432	739.411858	
718.8773442	949.6661556	1060.672402		
ENSG00000139405	581.9517229	758.2460332	679.5698992	
1198.461819	893.7549601	915.4740797	673.2558851	
1002.56362	-0.573392771	0.002299098	0.020175834	RITA1
12	113185526	113192368	+ 2309	
protein_coding	RBPJ interacting and tubulin associated 1 [Source:HGNC			
Symbol;Acc:HGNC:25925]	-	503 818	695 1193	978
933	11.91348342	15.61936338	13.94322795	
24.98145487	18.45752731	18.86269518		
ENSG00000245857	10.41265508	9.269511408	12.71137941	0
0	0	10.79784863	0	5.925559174
0.002310813	1	GS1-24F4.2	8	6835554 6885276 +
1433	lincRNA uncharacterized LOC100652791 [Source:NCBI			
gene;Acc:100652791]	-	9 10	13 0	0
0	0.343471757	0.307671853	0.420242158	0
0	0			
ENSG00000132932	79.83035562	165.9242542	160.3589403	
339.547439	235.7758484	240.3978023	135.3711834	
271.9070299	-1.002112145	0.002321427	0.020360102	ATP8A2

13	25372071	26025851	+	10415	
protein_coding	ATPase phospholipid transporting	8A2	[Source:HGNC		
Symbol;Acc:HGNC:13533]	-	69	179	164	338 258
245	0.362313511	0.757753088	0.729435725		
1.569128977	1.079491009	1.098127698			
ENSG00000119335	9656.002146	8631.769024	9834.69647		
6725.651196	7903.97408	6981.348421	9374.15588		
7203.657899	0.379867924	0.002350692	0.02060495		SET
9	128683424	128696400	+	4355	
protein_coding	SET nuclear proto-oncogene		[Source:HGNC		
Symbol;Acc:HGNC:10760]	-	8346	9312	10058	6695 8649
7115	104.8057074	94.27331222	106.9857481		
74.3299154	86.54387474	76.26631817			
ENSG00000137504	1758.581747	1853.902282	1983.952986		
1467.688782	1290.370147	1401.175762	1865.479005		
1386.411564	0.428515682	0.002354425	0.02062515		CREBZF
11	85659708	85682908	-	5587	
protein_coding	CREB/ATF bZIP transcription factor		[Source:HGNC		
Symbol;Acc:HGNC:24905]	TF_bZIP	1520	2000	2029	1461 1412
1428	14.87851644	15.78284467	16.82309245		
12.64365861	11.01322782	11.93151446			
ENSG00000188483	370.2277362	742.4878638	688.370085		
1296.910485	919.3430367	836.9768381	600.361895		
1017.743453	-0.75991315	0.002355695	0.02062515		IER5L
9	129175552	129178262	-	2711	
protein_coding	immediate early response 5 like		[Source:HGNC		
Symbol;Acc:HGNC:23679]	-	320	801	704	1291 1006
853	6.45528132	13.02677633	12.02944518		
23.02490999	16.1706345	14.68809759			
ENSG00000267296	1.156961676	2.780853423	0.977798416		
13.05951689	40.20983461	11.77458623	1.638537838		
21.68131258	-3.709173022	0.002360453	1		CEBPA-DT
19	33302857	33305054	+	2198	
antisense	CEBPA divergent transcript		[Source:HGNC		
Symbol;Acc:HGNC:25710]	-	1	3	1	13 44
12	0.024880954	0.060176583	0.021075349		
0.285967633	0.872335579	0.254858776			
ENSG00000009307	26305.83762	22618.53479	23525.82989		
18118.57281	19602.29437	18958.06505	24150.06743		
18892.97741	0.354128822	0.002365454	0.020698742		CSDE1
1	114716913	114758676	-	5778	
protein_coding	cold shock domain containing E1		[Source:HGNC		
Symbol;Acc:HGNC:29905]	CSD	22737	24401	24060	18036 21450
19321	215.2039989	186.1932984	192.8948094		
150.9259456	161.7738632	156.0982732			
ENSG00000117859	1685.693162	1604.552425	1589.900225		
1251.704465	1177.051522	1217.68846	1626.71527		
1215.481482	0.420359792	0.002370274	0.020719347		OSBPL9
1	51577179	51798427	+	9523	
protein_coding	oxysterol binding protein like 9		[Source:HGNC		

Symbol;Acc:HGNC:16386]	-	1457	1731	1626	1246	1288
1241	8.367206362	8.014145842		7.909503321		
6.326237242	5.893871682	6.083367216				
ENSG00000270441	6.941770054	16.68512054		16.62257307		
75.34336665	60.31475191	30.4176811		13.41648789		
55.35859989	-2.03490504	0.00237052		0.020719347		
AC135506.1	3	49140086	49160851	-		1799
	unprocessed_pseudogene	"laminin, beta 1 (LAMB1) pseudogene"				
-	6	18	17	75	66	31
0.182395786	0.441138843		0.437744012		2.015725159	
1.598716179	0.804408343					
ENSG00000180758	347.0885027		311.4555833		450.7650699	
230.0484128	195.5660138		234.5105092		369.7697186	
220.0416453	0.749355878		0.002380543		0.020795066	GPR157
1	9100305	9129170	-	5372	protein_coding	G
protein-coupled	receptor 157 [Source:HGNC Symbol;Acc:HGNC:23687]					
-	300	336	461	229	214	239
3.054076867	2.75763785		3.975276828		2.061107743	
1.735946622	2.076863399					
ENSG00000178966	708.0605455		506.1153229		612.1018085	
345.5749084	443.2220405		382.6740526		608.7592257	
390.4903338	0.63918845		0.002382188		0.020797553	RMI1
9	83980711		84004074		+	3507
protein_coding	RecQ mediated genome instability 1 [Source:HGNC					
Symbol;Acc:HGNC:25764]	-	612	546	626	344	485
390	9.543559138		6.864214318		8.268772116	
4.742680769	6.026491807		5.191285057			
ENSG00000178878	385.268238		233.5916875		391.1193665	
176.8057671	227.5511095		137.3701727		336.659764	
180.5756831	0.896976443		0.002388258		0.020838637	APOLD1
12	12725917		12829975		+	7243
protein_coding	apolipoprotein L domain containing 1 [Source:HGNC					
Symbol;Acc:HGNC:25268]	-	333	252	400	176	249
140	2.514319485		1.533966989		2.558255768	
1.174885108	1.498095363		0.902309617			
ENSG00000167987	868.8782185		1170.739291		1058.955685	
1570.155761	1425.621409		1378.607805		1032.857731	
1458.128325	-0.496579436		0.002409657		0.021013368	VPS37C
11	61130256		61161617		-	3960
protein_coding	"VPS37C, ESCRT-I subunit [Source:HGNC					
Symbol;Acc:HGNC:26097]"	-	751	1263	1083	1563	1560
1405	10.37144966		14.06183905		12.66880719	
19.08380668	17.16674714		16.56254892			
ENSG00000100029	1449.67298		2013.337878		1834.349829	
2688.251322	2098.222279		2755.253179		1765.786895	
2513.908926	-0.508977526		0.00241471		0.02104542	PES1
22	30576625		30607083		-	4557
protein_coding	pescadillo ribosomal biogenesis factor 1 [Source:HGNC					
Symbol;Acc:HGNC:8848]	-	1253	2172	1876	2676	2296
2808	15.03719235		21.0142914		19.0702445	

28.39280482	21.95591056	28.76498227				
ENSG00000283360	1.156961676	0	0	7.032047554		
9.138598774	28.45525006	0.385653892				
14.8752988	-5.352538971	0.002425488	1	AL592295.3		
1	161403409	161470523	-	863		
lincRNA novel transcript		-	1	0	0	7
10	29	0.063370031	0	0	0.392182726	
0.504949332		1.568675949				
ENSG00000255084	0	0	0	11.05036044	11.88017841	
9.812155195	0	10.91423135		-5.868110653		
0.00243136	1	AP003110.1	11	78533176		
78558565	+	717	antisense	uncharacterized		
LOC101928896 [Source:NCBI gene;Acc:101928896]				-	0	0
0	11	13	10	0	0	
0.741779362	0.790101333	0.651068794				
ENSG00000218428	1.156961676	0	0	27.12361199		
8.224738897	8.830939675	0.385653892				
14.72643019	-5.337101144	0.002436675	1	NIP7P3	6	
116137058	116137572	-	515			
processed_pseudogene	"NIP7, nucleolar pre-rRNA processing protein					
pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:45182]"				-	1	
0	0	27	9	9	0.106190945	0
0	2.534882024	0.761542031			0.81579552	
ENSG00000148154	1052.835125	1346.860008			1391.407146	
650.9666879	1096.631853	661.3392601			1263.70076	
802.979267	0.654082716	0.002436812			0.021225951	UGCG
9	111896766	111935369	+	4615		
protein_coding	UDP-glucose ceramide glucosyltransferase [Source:HGNC					
Symbol;Acc:HGNC:12524]	-	910	1453	1423	648	1200
674	10.78361563	13.88122734			14.28353326	
6.788979808	11.33099736	6.817642544				
ENSG00000227051	1115.311055	728.5835967			1616.300782	
665.030783	794.1442335	624.0530704			1153.398478	
694.4093623	0.73172902	0.002443022			0.021267921	
C14orf132	14	96039324	96093889	+		7775
protein_coding	chromosome 14 open reading frame 132					
[Source:HGNC Symbol;Acc:HGNC:20346]				-	964	786
662	869	636	6.780650331		4.457138263	
9.848609359	4.116790894	4.870549668			3.818587563	
ENSG00000053501	631.7010749	600.6643393			572.0120735	
904.1203998	1000.676566	735.9116396			601.4591626	
880.2362017	-0.549924459	0.002446908			0.021289634	USE1
19	17215346	17219829	+	2431		
protein_coding	unconventional SNARE in the ER 1 [Source:HGNC					
Symbol;Acc:HGNC:30882]	-	546	648	585	900	1095
750	12.28294187	11.75233074			11.1473943	
17.90023642	19.62852919	14.40198454				
ENSG00000133703	1281.913537	1128.099538			1176.291495	
888.0471483	887.357941	828.1458984			1195.434857	
867.8503292	0.461602736	0.002455241			0.021349984	KRAS

12	25204789	25250936	-	7302	
protein_coding	"KRAS proto-oncogene, GTPase [Source:HGNC				
Symbol;Acc:HGNC:6407]"	-	1108	1217	1203	884 971
844	8.298367128	7.34822943		7.63178724	
5.853446495	5.794767278	5.395685823			
ENSG00000136235	4234.479733	3695.754199		4510.584094	
2834.919743	3033.100933	3431.310672		4146.939342	
3099.777116	0.419798061	0.00246535		0.0214257	GPNMB
7	23235967	23275108	+	6040	
protein_coding	glycoprotein nmb [Source:HGNC Symbol;Acc:HGNC:4462]				
-	3660	3987	4613	2822	3319 3497
33.13895883	29.10336828	35.37927849		22.59026301	
23.94577578	27.02742865				
ENSG00000266017	31.23796524	38.93194792		48.88992081	
75.34336665	123.3710835	105.9712761		39.68661132	
101.5619087	-1.353446575	0.002474087		0.021489417	
MIR4477B	9	63819574	63819654	+	81
miRNA	microRNA 4477b [Source:HGNC Symbol;Acc:HGNC:41898]				
-	27	42	50	75	135 108
18.22944548	22.86115823	28.59482488		44.76900694	
72.62854559	62.24217674				
ENSG00000121753	141.1493244	120.5036483		159.3811418	
92.42119643	36.5543951	40.2298363		140.3447049	
56.40180927	1.317278632	0.002478056		0.021511668	ADGRB2
1	31727117	31764893	-	7756	
protein_coding	adhesion G protein-coupled receptor B2 [Source:HGNC				
Symbol;Acc:HGNC:944]"	-	122	130	163	92 40
41	0.860234276	0.738991614		0.973536547	
0.573523534	0.224740213	0.246769847			
ENSG00000266947	4.627846703	31.51633879		25.42275882	
97.44408754	46.60685375	94.19668987		20.52231477	
79.41587705	-1.939410162	0.002483578		0.021547365	
AC022916.1	17	35231450	35242963	-	2814
antisense	"novel transcript, antisense SLFN5"				-
4	34	26	97	51	96 0.077737507
0.532707464	0.428007827	1.666667081		0.789777361	
1.592550364					
ENSG00000150938	1389.510973	1444.189877		1781.548714	
1189.420615	754.8482587	1135.266356		1538.416521	
1026.511743	0.584235174	0.002488505		0.021577866	CRIM1
2	36355926	36551135	+	7122	
protein_coding	cysteine rich transmembrane BMP regulator 1				
[Source:HGNC Symbol;Acc:HGNC:2359]"	-			1201	1558 1822
1184	826	1157	9.222225787	9.644938038	
11.85083248	8.038054556	5.054016736		7.583635056	
ENSG00000179886	304.2809207	508.8961763		595.4792354	
790.6030607	680.8256087	846.7889933		469.5521108	
772.7392209	-0.716890618	0.002498035		0.021648218	TIGD5
8	143597835	143603224	+	5390	
protein_coding	tigger transposable element derived 5 [Source:HGNC				

Symbol;Acc:HGNC:18336]	-	263	549	609	787	745
863	2.668466138	4.49073613		5.233967038		
7.059715239	6.023183651	7.47425768				
ENSG00000107104	533.3593325	433.8131339		599.3904291		
396.8083977	247.6560268	306.1392421		522.1876318		
316.8678889	0.721156006	0.00250835		0.021724209		KANK1
9	470291	746106	+	11908	protein_coding	KN
motif and ankyrin repeat domains 1 [Source:HGNC						
Symbol;Acc:HGNC:19309]	-	461	468	613	395	271
312	2.117175268	1.732770259		2.384647027		
1.603834259	0.991719979	1.223099543				
ENSG00000102271	472.0403637	281.7931468		209.2488611		
99.45324398	183.6858354	184.4685177		321.0274572		
155.869199	1.040018449	0.002509646		0.021724209		KLHL4
X	87517749	87670050		+	5818	
protein_coding kelch like family member 4 [Source:HGNC						
Symbol;Acc:HGNC:6355]	-	408	304	214	99	201
188	3.83513944	2.303741918		1.703893759		
0.822740155	1.505500618	1.508447391				
ENSG00000163492	0	2.780853423		1.955596832	9.041203998	
	31.07123583	25.51160351		1.578816752	21.87468111	
	-3.749280956	0.002517169		1	CCDC141	2
178829757	179050086	-		15446	protein_coding	
coiled-coil domain containing 141 [Source:HGNC Symbol;Acc:HGNC:26821]						
-	0	3	2	9	34	26
	0.008563261	0.005998138		0.02817265	0.09592272	0
	0.078578431					
ENSG00000135763	587.7365313	578.4175119		683.4810929		
987.5003922	797.799673	888.9812606		616.5450453		
891.4271086	-0.531498233	0.00252556		0.021849597		URB2
1	229626234	229660199		+	6001	
protein_coding URB2 ribosome biogenesis 2 homolog (S. cerevisiae)						
[Source:HGNC Symbol;Acc:HGNC:28967]	-			508	624	699
983	873	906		4.629507567	4.584531076	
5.395802	7.920108069	6.339415461		7.047751891		
ENSG00000149115	1877.7488	2481.448204		2466.007606		
2798.754927	3126.314641	3559.849905		2275.068203		
3161.639824	-0.474355673	0.002528087		0.021859089		
TNKS1BP1	11	57299638		57324952	-	7149
protein_coding tankyrase 1 binding protein 1 [Source:HGNC						
Symbol;Acc:HGNC:19081]	-	1623	2677	2522	2786	3421
3628	12.41560638	16.50961828		16.34188842		
18.84243525	20.85289588	23.69016127				
ENSG00000102760	194.3695615	262.3271729		161.3367387		
236.0758822	360.9746516	649.5646739		206.0111577		
415.5384025	-1.011594094	0.00253275		0.02188703		RGCC
13	41457559	41470882		+	1032	
protein_coding regulator of cell cycle [Source:HGNC						
Symbol;Acc:HGNC:20369]	-	168	283	165	235	395
662	8.902752442	12.09040075		7.406392143		

11.01005229	16.67922995	29.94500073			
ENSG00000109654	378.326468	265.1080263	367.6522045		
100.4578222	266.8470842	120.6895089	337.0288996		
162.6648051	1.048681354	0.002536606	0.021907965	TRIM2	
4	153152342	153339320	+ 9425		
protein_coding	tripartite motif containing 2	[Source:HGNC			
Symbol;Acc:HGNC:15974]	-	327 286	376 100	292	
123	1.897409657	1.337884531	1.84802968		
0.513002944	1.350081824	0.609213878			
ENSG00000125944	7302.742097	6709.272357	7546.648176		
5838.608626	5556.268055	5442.802486	7186.220877		
5612.559723	0.356546175	0.002543401	0.021954247	HNRNPR	
1	23303771	23344336	- 8676		
protein_coding	heterogeneous nuclear ribonucleoprotein R	[Source:HGNC			
Symbol;Acc:HGNC:5047]	-	6312 7238	7718 5812	6080	
5547	39.78708847	36.78180125	41.20858353		
32.38972635	30.53814365	29.84589855			
ENSG00000108479	393.3669697	671.112626	528.9889431		
736.3558367	833.4402082	935.0983901	531.1561796		
834.9648117	-0.651033253	0.002544938	0.021955119	GALK1	
17	75751594	75765711	- 2891		
protein_coding	galactokinase 1	[Source:HGNC Symbol;Acc:HGNC:4118]			
-	340 724	541 733	912 953		
6.431696433	11.04140735	8.668653208	12.25905799		
13.74691807	15.3883071				
ENSG00000113300	1087.543975	963.1022353	1203.66985		
819.7358292	671.6870099	786.9348466	1084.77202		
759.4525619	0.514517271	0.002550584	0.021991417	CNOT6	
5	180494412	180578405	+ 6586		
protein_coding	CCR4-NOT transcription complex subunit 6	[Source:HGNC			
Symbol;Acc:HGNC:14099]	-	940 1039	1231 816	735	
802	7.805502011	6.955490778	8.658422666		
5.990590713	4.863223293	5.684583861			
ENSG00000067182	1854.609566	2102.325187	2018.175931		
2465.234957	2767.167709	2662.037704	1991.703562		
2631.480123	-0.401658694	0.002555598	0.022010869		
TNFRSF1A	12 6328757	6342114 -	4005	protein_coding	
	TNF receptor superfamily member 1A	[Source:HGNC			
Symbol;Acc:HGNC:11916]	-	1603 2268	2064 2454	3028	
2713	21.88898959	24.96746719	23.87314459		
29.6260161	32.94670203	31.62228942			
ENSG00000132612	1666.024813	1949.378249	1994.708769		
2687.246744	2321.204089	2531.53604	1870.037277		
2513.328958	-0.426057064	0.002555572	0.022010869	VPS4A	
16	69311356	69326939	+ 5670		
protein_coding	vacuolar protein sorting 4 homolog A	[Source:HGNC			
Symbol;Acc:HGNC:13488]	-	1440 2103	2040 2675	2540	
2580	13.88910132	16.35272645	16.66669793		
22.81087496	19.52132336	21.24137778			
ENSG00000196628	2070.9614	1399.696223	1970.263809		

1382.299634	1168.826783	1222.594537	1813.640477			
1257.906985	0.527538225	0.002570043	0.02212176	TCF4		
18	55222331	55664787	-	27828		
protein_coding	transcription factor 4 [Source:HGNC					
Symbol;Acc:HGNC:11634]	bHLH	1790	1510	2015	1376	1279
1246	3.517756296	2.3923731	3.354250642			
2.390769219	2.00284411	2.090172278				
ENSG00000254527	0	3.707804563	5.866790497	38.17397244		
27.41579632	19.62431039	3.191531687	28.40469305			
-3.124392803	0.002573232	0.022125855	ENPP7P12			
8	12205759	12206389	-	631		
processed_pseudogene	ectonucleotide pyrophosphatase/					
phosphodiesterase 7 pseudogene 12 [Source:HGNC	Symbol;Acc:HGNC:48697]					
-	0	4	6	38	30	20
0.279488917	0.440478127	2.911759183	2.071812711			
1.479608005						
ENSG00000096080	476.6682104	487.5763001	494.7659986			
688.1360821	727.4324624	680.9635705	486.3368364			
698.8440383	-0.522951162	0.002573413	0.022125855			
MRPS18A 6	43671303	43687791	-	1284		
protein_coding	mitochondrial ribosomal protein S18A [Source:HGNC					
Symbol;Acc:HGNC:14515]	-	412	526	506	685	796
694	17.54797088	18.06153589	18.2552569			
25.79447923	27.01510387	25.23134968				
ENSG00000181284	230.2353735	302.1860719	255.2053866			
361.6481599	511.7615314	417.0165958	262.5422773			
430.1420957	-0.711410503	0.002584178	0.022205922			
TMEM102 17	7435443	7437679 +	2129	protein_coding		
transmembrane protein 102 [Source:HGNC	Symbol;Acc:HGNC:26722]					
199	326	261	360	560	425	5.111779685
6.751121073	5.678940281	8.175758524	11.46227868			
9.318785268						
ENSG00000182263	190.8986765	162.2164496	309.9620979			
100.4578222	130.6819625	96.15912091	221.0257414			
109.0996352	1.018063317	0.002606065	0.022381411	FIGN		
2	163593396	163736012	-	9942		
protein_coding	"fidgetin, microtubule severing factor [Source:HGNC					
Symbol;Acc:HGNC:13285]"	-	165	175	317	100	143
98	0.907621757	0.776065269	1.477025384			
0.486325966	0.626788293	0.460148862				
ENSG00000133313	1604.705844	1743.595096	1835.327627			
1143.210017	1280.317688	1382.532667	1727.876189			
1268.686791	0.445827339	0.002625976	0.022539751	CNDP2		
18	74495816	74523454	+	11848		
protein_coding	carnosine dipeptidase 2 [Source:HGNC					
Symbol;Acc:HGNC:24437]	-	1387	1881	1877	1138	1401
1409	6.402154172	6.999672294	7.338743064			
4.644066533	5.152899681	5.551520955				
ENSG00000261888	31.23796524	19.46597396	20.53376674			
122.5585431	40.20983461	71.62873292	23.74590198			

78.1323702	-1.722219257	0.002631662	0.022575877		
AC144831.1	17	83104255	83106910	+	2656
lincRNA novel transcript		-	27	21	21
122	44	73	0.555943179	0.348598233	
0.366263533	2.220920314	0.721910242	1.283041859		
ENSG00000160392	712.6883922	878.7496815	1121.534783		
1473.716252	1283.973128	1249.087356	904.3242857		
1335.592245	-0.561732805	0.002634598	0.022588393		
C19orf47	19	40319536	40348527	-	4875
protein_coding chromosome 19 open reading frame 47					
[Source:HGNC Symbol;Acc:HGNC:26723]		-	616	948	1147
1467	1405	1273	6.910362101	8.573687999	
10.89911547	14.5497895	12.55915158	12.18989092		
ENSG00000073578	1421.905899	1472.925363	1658.346114		
1112.068092	930.3093552	1214.744813	1517.725792		
1085.70742	0.483684094	0.002636826	0.022594824		SDHA
5	218241	256700	+	8383	protein_coding
succinate dehydrogenase complex flavoprotein subunit A [Source:HGNC					
Symbol;Acc:HGNC:10680]	-	1229	1589	1696	1107
1238	8.017650659	8.35715369	9.371925715		1018
6.384830482	5.291842496	6.893935477			
ENSG00000143319	2070.9614	2067.101044	2122.800361		
2607.885064	2800.980524	2725.816713	2086.954268		
2711.560767	-0.377755667	0.002658163	0.022764893		
ISG20L2 1	156721891	156728799	-	5262	
protein_coding interferon stimulated exonuclease gene 20 like 2					
[Source:HGNC Symbol;Acc:HGNC:25745]		-	1790	2230	2171
2596	3065	2778	18.60359601	18.68477951	
19.11223318	23.85366199	25.38272431	24.64492118		
ENSG00000188706	1112.997132	1157.761975	1216.38123		
1787.144657	1427.449129	1567.9824	1162.380112		
1594.192062	-0.455379614	0.002665547	0.022815347		ZDHHC9
X	129803288	129843909	-	5243	
protein_coding zinc finger DHHC-type containing 9 [Source:HGNC					
Symbol;Acc:HGNC:18475]	-	962	1249	1244	1779
1598	10.03436575	10.50307674	10.99114604		1562
16.405796	12.982543	14.2279704			
ENSG00000023318	1093.328784	925.0972386	963.1314399		
714.2551159	718.2938636	696.6630188	993.8524873		
709.7373328	0.485167241	0.002672769	0.022864361		ERP44
9	99979179	100099040	-	4854	
protein_coding endoplasmic reticulum protein 44 [Source:HGNC					
Symbol;Acc:HGNC:18311]	-	945	998	985	711
710	10.64698762	9.064935687	9.400239404		786
7.08224661	7.056370437	6.828174519			
ENSG00000239556	21.98227184	6.488657986	21.51156516		0
0.913859877	0.981215519	16.66083166	0.631691799		
4.702608079	0.002681902	1	AC004951.2		7
43984995	43990207	-	793		
transcribed_unprocessed_pseudogene					uroplakin-like protein (UPLP)

pseudogene	-	19	7	22	0	1	1
	1.310313231	0.389187435		1.285144463	0		
0.054952241	0.058867128						
ENSG00000114648	1250.675571		1074.336372		1311.227676		
1772.075984	1720.798149		1506.165822		1212.079873		
1666.346652	-0.459484445		0.002685263		0.022958398		KLHL18
	3	47282917	47346816		+	7064	
protein_coding	kelch like family member 18 [Source:HGNC						
Symbol;Acc:HGNC:29120]	-	1081	1159	1341	1764		1883
	1535	8.368925776	7.233803434		8.793880164		
12.0739426	11.61604343		10.14387117				
ENSG00000130518	43.96454368		79.71779811		61.60130022		
211.9660048	125.1988032		104.0088451		61.761214		
147.0578844	-1.247097054		0.00269156		0.022990416		IQCIN
	19	18257097	18274509		-	9154	
protein_coding	IQ motif containing N [Source:HGNC						
Symbol;Acc:HGNC:29350]	-	38	86	63	211		137
	106	0.227021716	0.414210879		0.318810119		
1.114481243	0.652181172		0.540556374				
ENSG00000162733	3365.601515		3001.467794		3486.829152		
2723.41156	2405.279197		2293.100669		3284.63282		
2473.930475	0.408891576		0.002692016		0.022990416		DDR2
	1	162631373	162787400		+	10730	
protein_coding	discoidin domain receptor tyrosine kinase 2						
[Source:HGNC Symbol;Acc:HGNC:2731]	-	2909	3238				3566
	2711	2632	2337	14.82650239	13.30488363		
15.39515524	12.21605592		10.68918911		10.16728567		
ENSG00000163508	5.784808379		4.634755704		10.75578258		
63.28842799	33.81281546		19.62431039		7.058448887		
38.90851795	-2.460298407		0.002697572		0.023025007		EOMES
	3	27715949	27722711		-	3656	
protein_coding	eomesodermin [Source:HGNC Symbol;Acc:HGNC:3372] T-box						
	5	5	11	63	37	20	0.074792583
	0.060297287		0.139376307		0.833173751		0.441015786
	0.255369981						
ENSG00000124225	3956.808931		1970.698125		3627.632124		
2302.493285	2018.716469		1847.628823		3185.046393		
2056.279526	0.631009608		0.002726869		0.023262082		PMEPA1
	20	57648392	57711536		-	5619	
protein_coding	"prostate transmembrane protein, androgen induced 1						
[Source:HGNC Symbol;Acc:HGNC:14107]"	-	3420	2126				3710
	2292	2209	1883	33.28601363	16.68161855		
30.58562316	19.72226535		17.1314957		15.64362237		
ENSG00000134242	807.5592496		812.9361505		490.8548049		
943.2989505	1226.399955		1103.867459		703.7834017		
1091.188788	-0.63324346		0.002731888		0.023291899		PTPN22
	1	113813811	113871759		-	4503	
protein_coding	"protein tyrosine phosphatase, non-receptor type 22						
[Source:HGNC Symbol;Acc:HGNC:9652]"	-	698	877				502
	939	1342	1125	8.477117217	8.586805077		

5.164213944	10.08242179	12.98700975	11.66263305		
ENSG00000159753	49.74935206	99.18377207	54.75671131		
221.0072088	227.5511095	75.553595	67.89661181		
174.7039711	-1.360495888	0.002734038	0.023297236		
CARMIL2 16	67644919	67657569	+ 7699		
protein_coding	capping protein regulator and myosin 1 linker 2				
[Source:HGNC Symbol;Acc:HGNC:27089]	-	43	107	56	
220	249	77	0.305442066	0.612750136	
0.336942787	1.381623074	1.409365464	0.466876959		
ENSG00000143669	1268.029997	1019.646255	1253.53757		
884.0288354	875.4777626	730.0243465	1180.404607		
829.8436481	0.507908375	0.002735946	0.023298033	LYST	
1	235661041	235883640	- 19614		
protein_coding	lysosomal trafficking regulator [Source:HGNC				
Symbol;Acc:HGNC:1968]	-	1096	1100	1282	880
744	3.055899701	2.472637618	3.027779959	958	
2.169290517	2.128422963	1.770731856			
ENSG00000138443	1790.976674	1412.673539	1829.460837		
1242.663261	1188.931701	1214.744813	1677.703683		
1215.446591	0.464711949	0.002738073	0.023298033	ABI2	
2	203328219	203447723	+ 23331		
protein_coding	abl interactor 2 [Source:HGNC Symbol;Acc:HGNC:24011]				
-	1548	1524	1871	1237	1301
3.628543346	2.879954134	3.714863749	2.563525031		
2.429979113	2.477041751				
ENSG00000100441	588.8934929	720.2410364	705.9704565		
997.5461745	869.0807434	1014.576847	671.7016619		
960.401255	-0.514790563	0.002738704	0.023298033	KHNYN	
14	24429286	24441834	+ 8015		
protein_coding	KH and NYN domain containing [Source:HGNC				
Symbol;Acc:HGNC:20166]	-	509	777	722	993
1034	3.473033468	4.274166638	4.172882218	951	
5.990277455	5.170536259	6.022309178			
ENSG00000285035	9.255693406	4.634755704	18.57816991	0	
0	0	10.82287301	0	5.928838211	
0.002739441	1	AC091057.7	15	30644633	
30723495	+ 675	transcribed_unprocessed_pseudogene			
	"Serine/threonine-protein kinase ULK4 (ULK4), pseudogene"				
-	8	5	19	0	0
0.648158061	0.326587975	1.303924015	0	0	0
ENSG00000117616	709.2175072	499.6266649	614.0574053		
435.9869484	363.7162312	383.6552681	607.6338592		
394.4528159	0.622645531	0.002741156	0.023305925	RSRP1	
1	25242237	25338213	- 6804		
protein_coding	arginine and serine rich protein 1 [Source:HGNC				
Symbol;Acc:HGNC:25234]	-	613	539	628	434
391	4.92709439	3.492676951	4.275607149	398	
3.084087145	2.549044193	2.682615863			
ENSG00000168495	2275.743616	2599.170999	2497.297155		
3397.483547	2955.422844	3365.569232	2457.403923		

3239.491874	-0.398303436	0.002747879	0.023350097	POLR3D
8	22245104	22254600	+ 5611	
protein_coding	RNA polymerase III subunit D [Source:HGNC			
Symbol;Acc:HGNC:1080]	-	1967 2804	2554 3382	3234
3430	19.17161963	22.03290179	21.08546	
29.14301978	25.11645515	28.53644621		
ENSG00000233452	79.83035562	149.2391337	48.88992081	
268.2223853	212.9293514	159.9381297	92.6531367	
213.6966221	-1.203104701	0.002753495	0.023378925	
STXBP5-AS1	6	146841901	147204614	- 6011
antisense	STXBP5 antisense RNA 1 [Source:HGNC			
Symbol;Acc:HGNC:44183]	-	69 161	50 267	233
163	0.627764967	1.180899955	0.385323709	
2.147661095	1.68914834	1.265863601		
ENSG00000157985	968.3769226	1028.915766	1053.088894	
1582.2107	1398.205612	1242.218848	1016.793861	
1407.545053	-0.468847584	0.00275433	0.023378925	AGAP1
2	235494089	236131800	+ 13910	
protein_coding	"ArfGAP with GTPase domain, ankyrin repeat and PH			
domain 1 [Source:HGNC	Symbol;Acc:HGNC:16922]"	-	837 1110	
1077	1575 1530	1266	3.290735988	3.518275198
3.58666677	5.474628382	4.79317073	4.248666198	
ENSG00000146109	772.8503994	833.3290756	733.3488121	
1119.100139	1079.268515	1036.163589	779.8427624	
1078.177414	-0.467140862	0.002758369	0.023389308	ABT1
6	26596952	26600744	+ 2949	
protein_coding	activator of basal transcription 1 [Source:HGNC			
Symbol;Acc:HGNC:17369]	-	668 899	750 1114	1181
1056	12.38786325	13.44060683	11.78118421	
18.26466179	17.45153862	16.7161085		
ENSG00000165389	1278.442652	1030.769669	1135.223961	
752.4290883	897.4103996	789.8784932	1148.145427	
813.239327	0.496753211	0.002758613	0.023389308	SPTSSA
14	34432789	34462356	- 2777	
protein_coding	serine palmitoyltransferase small subunit A			
[Source:HGNC	Symbol;Acc:HGNC:20361]	-	1105 1112	1161
749	982 805	21.76111334	17.65480258	
19.36684139	13.04088768	15.40970078	13.53212611	
ENSG00000207181	10.41265508	11.12341369	9.777984162	0
0	0	10.43801764	0	5.876780711
0.002762441	1	SNORA14B	1	235127803
235127937	-	135	snoRNA "small nucleolar RNA, H/ACA	
box 14B [Source:HGNC	Symbol;Acc:HGNC:32603]"	-	9 12	
10	0 0	0	3.645889095	3.919055696
3.431378986	0	0	0	
ENSG00000014138	369.0707746	291.9896094	351.0296314	
152.6958897	229.3788292	208.9989056	337.3633384	
197.0245415	0.774405275	0.002764897	0.023429594	POLA2
11	65261762	65305589	+ 5726	
protein_coding	"DNA polymerase alpha 2, accessory subunit			

[Source:HGNC Symbol;Acc:HGNC:30073]"	-	319	315	359
152	251 213	3.046730584	2.425454702	
2.904327324	1.283492871	1.91020939	1.736498033	
ENSG00000077514	1696.105817	1753.791558	1585.989031	
1022.66063	1401.861052	1187.270779	1678.628802	
1203.93082	0.479223926	0.002788519	0.02361667	POLD3
11	74493851	74669117	+ 5508	
protein_coding	"DNA polymerase delta 3, accessory subunit			
[Source:HGNC Symbol;Acc:HGNC:20932]"	-	1466	1892	1622
1018	1534 1210	14.55575548	15.14471686	
13.64141352	8.936244914	12.13640402	10.25504274	
ENSG00000121895	10.41265508	12.97731597	12.71137941	
93.42577465	45.69299387	20.60552591	12.03378349	
53.24143148	-2.141989303	0.002807849	0.023767214	
TMEM156	4 38966744	39032922	- 2562	
protein_coding	transmembrane protein 156 [Source:HGNC			
Symbol;Acc:HGNC:26260]	-	9 14	13 93	50
21	0.192113594	0.240925555	0.235053479	
1.755112825	0.850451354	0.382636332		
ENSG00000182134	311.2226908	282.720098	260.0943787	
564.5729608	427.6864226	384.6364836	284.6790558	
458.965289	-0.689502528	0.002815866	0.023820173	TDRKH
1	151770107	151791416	- 5092	
protein_coding	tudor and KH domain containing [Source:HGNC			
Symbol;Acc:HGNC:11713]	-	269 305	266 562	468
392	2.889073547	2.640860145	2.419890404	
5.336409358	4.005124824	3.593715625		
ENSG00000136628	6529.891698	5903.751816	6334.17814	
5132.390136	4729.224866	4818.749416	6255.940551	
4893.454806	0.354324971	0.002817222	0.023820173	EPRS
1	219968601	220046658	- 5450	
protein_coding	glutamyl-prolyl-tRNA synthetase [Source:HGNC			
Symbol;Acc:HGNC:3418]	-	5644 6369	6478 5109	5175
4911	56.63504052	51.52389714	55.06135532	
45.32529265	41.37828148	42.06486192		
ENSG00000166250	6491.711962	6118.804481	4056.885629	
7538.354978	8671.616377	7397.383801	5555.800691	
7869.118385	-0.502336863	0.002822927	0.023854555	CLMP
11	123069865	123195281	- 5097	
protein_coding	CXADR like membrane protein [Source:HGNC			
Symbol;Acc:HGNC:24039]	-	5611 6601	4149 7504	9489
7539	60.20330699	57.09907294	37.70780539	
71.18351154	81.12681214	69.04705274		
ENSG00000134247	1507.521063	1087.313688	2020.131528	
1134.168813	868.1668835	984.159166	1538.322093	
995.4982874	0.627933699	0.002825196	0.023854555	PTGFRN
1	116910057	116990358	+ 6352	
protein_coding	prostaglandin F2 receptor inhibitor [Source:HGNC			
Symbol;Acc:HGNC:9601]	-	1303 1173	2066 1129	950
1003	11.21834105	8.141819699	15.06684372	

8.593788655	6.517360042	7.371170884			
ENSG00000107874	828.3845598	1016.865402	995.3987877		
1235.631213	1372.617536	1327.584598	946.8829163		
1311.944449	-0.469806635	0.002827318	0.023854555		CUEDC2
10	102423245	102432661	-	1412	
protein_coding	CUE domain containing 2 [Source:HGNC				
Symbol;Acc:HGNC:28352]	-	716	1097	1018	1230
1353	27.73147938	34.25357373	33.39762139		1502
42.11837735	46.35470629	44.73105442			
ENSG00000165644	86.77212568	155.7277917	158.4033434		
53.24264577	45.69299387	72.60994844	133.6344203		
57.18186269	1.227633813	0.00282753	0.023854555		COMTD1
10	75233969	75236030	-	1580	
protein_coding	catechol-O-methyltransferase domain containing 1				
[Source:HGNC	Symbol;Acc:HGNC:26309]	-	75	168	162
53	50	74	2.595965337	4.687984345	
4.749636609	1.621884783	1.379023018	2.186354942		
ENSG00000214530	637.4858833	627.5459224	662.9473262		
817.7266727	975.0884892	927.2486659	642.6597106		
906.6879426	-0.496741448	0.002841348	0.023957907		
STARD10	11	72754729	72793681	-	3710
protein_coding	StAR related lipid transfer domain containing 10				
[Source:HGNC	Symbol;Acc:HGNC:10666]	-	551	677	678
814	1067	945	8.122176112	8.045419931	
8.465609666	10.60844458	12.53282881	11.89060452		
ENSG00000125885	1434.632478	1395.988418	1698.435849		
1249.695308	860.8560045	1039.107235	1509.685582		
1049.886183	0.524426873	0.002847638	0.023997706		MCM8
20	5950652	5998977	+	7691	protein_coding
minichromosome	maintenance 8 homologous recombination repair factor				
[Source:HGNC	Symbol;Acc:HGNC:16147]	-	1240	1506	1737
1244	942	1059	8.817258767	8.633285805	
10.46211436	7.820576804	5.337362367	6.427753072		
ENSG00000134318	2353.260048	2143.111038	2516.853123		
1756.002732	1741.816926	1809.361418	2337.741403		
1769.060359	0.402064135	0.002864303	0.024124846		ROCK2
2	11179761	11348330	-	10145	
protein_coding	Rho associated coiled-coil containing protein kinase 2				
[Source:HGNC	Symbol;Acc:HGNC:10252]	-	2034	2312	2574
1748	1906	1844	10.96462063	10.04777118	
11.75327633	8.330874525	8.187087702	8.485059678		
ENSG00000172061	83.30124065	44.49365476	132.0027862		
7.032047554	42.03755436	19.62431039	86.5992272		
22.89797077	1.913910379	0.002865914	0.024125123		LRRC15
3	194355247	194369743	-	5940	
protein_coding	leucine rich repeat containing 15 [Source:HGNC				
Symbol;Acc:HGNC:20818]	-	72	48	135	7
20	0.662888926	0.356277791	1.052809462		46
0.056978736	0.337465969	0.157177214			
ENSG00000158710	31807.19039	37426.57926	39583.23548		

21004.72604	27897.40048	30588.4126	36272.33504	
26496.84638	0.453058468	0.002873639	0.024176844	TAGLN2
1	159918107	159925732	- 2487	
protein_coding	transgelin 2 [Source:HGNC Symbol;Acc:HGNC:11554]			
-	27492 40376	40482 20909	30527 31174	
604.5403077	715.7831398	754.0300103	406.4982627	
534.8930304	585.1440343			
ENSG00000006459	178.1720981	171.4859611	88.97965587	
248.1308208	342.697454	254.1348195	146.2125717	
281.6543648	-0.947597228	0.002878795	0.0242069	KDM7A
7	140084746	140177035	- 9430	
protein_coding	lysine demethylase 7A [Source:HGNC			
Symbol;Acc:HGNC:22224]	-	154 185	91 247	375
259	0.893107509	0.864955956	0.447025354	
1.266445418	1.732918638	1.282136037		
ENSG00000140740	1961.05004	1963.282516	2314.448851	
1646.503706	1477.711422	1521.865271	2079.593803	
1548.693466	0.425461769	0.002890518	0.024292111	UQCRC2
16	21952660	21983660	+ 5217	
protein_coding	ubiquinol-cytochrome c reductase core protein 2			
[Source:HGNC Symbol;Acc:HGNC:12586]	-		1695 2118	2367
1639	1617 1551	17.76820591	17.89942488	
21.01744294	15.19005454	13.50665419	13.87832319	
ENSG00000140988	25878.91876	33251.59132	33231.45697	
36762.54003	39879.93119	47536.94827	30787.32235	
41393.13983	-0.427021212	0.002918587	0.024508912	RPS2
16	1962052 1964860	- 2413	protein_coding	
ribosomal protein S2 [Source:HGNC Symbol;Acc:HGNC:10404]			-	
22368	35872 33986	36595 43639	48447 506.9493201	
655.4389211	652.4469225	733.272919	788.090452	
937.2503325				
ENSG00000213918	478.9821337	368.9265541	479.1212239	
817.7266727	656.151392	573.0298634	442.3433039	
682.3026427	-0.625866888	0.002919522	0.024508912	DNASE1
16	3611728 3680143	+ 13801	protein_coding	
deoxyribonuclease 1 [Source:HGNC Symbol;Acc:HGNC:2956]	-			414
398	490 814	718 584	1.640531214	
1.271471044	1.644704876	2.851773739	2.267109444	
1.975369423				
ENSG00000143643	913.9997238	922.3163851	1068.733669	
772.5206527	587.6119012	656.4331825	968.3499259	
672.1885788	0.527205462	0.002927363	0.024561151	TTC13
1	230906243	230978875	- 4212	
protein_coding	tetratricopeptide repeat domain 13 [Source:HGNC			
Symbol;Acc:HGNC:26204]	-	790 995	1093 769	643
669	10.25730906	10.41522547	12.02082446	
8.827529829	6.652443706	7.414532806		
ENSG00000159217	5.784808379	13.90426711	11.73358099	0
0	0	10.47421883	0	5.884048582
0.002927849	1	IGF2BP1 17	48997412	49055650

	+	9109	protein_coding	insulin like growth factor 2				
mRNA binding protein 1		[Source:HGNC Symbol;Acc:HGNC:28866]		-				
	5	15	12	0	0	0	0.030018848	
	0.072602991	0.061025732	0	0	0	0		
ENSG00000198746	259.1594154	342.9719221	389.1637696					
578.6370559	473.3794165	519.0630098	330.4317024					
523.6931607	-0.662526095	0.002928958	0.024561151					
GPATCH3 1	26890488	26900466	-	2225				
protein_coding	G-patch domain containing 3	[Source:HGNC						
Symbol;Acc:HGNC:25720]	-	224	370	398	576	518		
	529	5.505702185	7.331716555	8.286201929				
12.51681071	10.14514695	11.09868927						
ENSG00000182004	1933.28296	2069.881898	2068.04365					
1537.00468	1467.658963	1601.343728	2023.736169					
1535.33579	0.398707572	0.002943773	0.024671855	SNRPE				
1	203861603	203870550	+	1474				
protein_coding	small nuclear ribonucleoprotein polypeptide E	[Source:HGNC Symbol;Acc:HGNC:11161]	-	1671	2233	2115		
	1530	1606	1632	61.99742889	66.79211526			
66.46841825	50.18745391	47.47955667	51.68549819					
ENSG00000224081	18.51138681	5.561706845	7.822387329	0				
	0	10.631827	0	5.89945596				
0.002948641	1	SLC44A3-AS1	1	94613814				
94855426	-	10245	transcribed_processed_pseudogene					
	SLC44A3 antisense RNA 1	[Source:HGNC Symbol;Acc:HGNC:49057]						
	-	16	6	8	0	0		
0.085408822	0.025821011	0.036172663	0	0	0	0		
ENSG00000140320	437.3315134	781.4198117	693.2590771					
1123.118452	919.3430367	944.9105452	637.3368007					
995.7906781	-0.642169755	0.002955887	0.024759807	BAHD1				
15	40439721	40468242	+	5196				
protein_coding	bromo adjacent homology domain containing 1	[Source:HGNC Symbol;Acc:HGNC:29153]	-	378	843	709		
	1118	1006	963	3.97848175	7.153068602			
6.320909154	10.403366	8.43698809	8.65173444					
ENSG00000048028	1050.521202	841.6716359	858.5070094					
524.3898319	667.1177105	683.9072171	916.8999489					
625.1382532	0.551690625	0.002958708	0.024769864	USP28				
11	113797874	113875570	-	5719				
protein_coding	ubiquitin specific peptidase 28	[Source:HGNC						
Symbol;Acc:HGNC:12625]	-	908	908	878	522	730		
	697	8.682813338	7.000026916	7.111756447				
4.413179813	5.562389048	5.68929846						
ENSG00000112787	1801.389329	3205.397045	3521.052097					
4823.984622	3625.282134	4599.938355	2842.612824					
4349.735037	-0.613264277	0.002960729	0.024773216	FBRSL1				
12	132489551	132585188	+	9378				
protein_coding	fibrosin like 1	[Source:HGNC Symbol;Acc:HGNC:29308]						
	-	1557	3458	3601	4802	3967	4688	
9.0797334	16.25731118	17.78751784	24.75786234					

18.43361743	23.3358385					
ENSG00000253719	1689.164047	1666.658151	1730.703197			
2334.639788	2494.837465	1988.923858	1695.508465			
2272.80037	-0.422843804	0.002966132	0.024804851			
ATXN7L3B	12	74537827	74545430	+		7604
protein_coding	ataxin 7 like 3B [Source:HGNC					
Symbol;Acc:HGNC:37931]	-	1460	1798	1770	2324	2730
2027	10.50039074	10.42513139	10.78285125			
14.77730483	15.64512857	12.44393335				
ENSG00000189057	2014.270277	1333.882692	1443.230462			
1131.155078	1155.118885	1025.370218	1597.12781			
1103.881394	0.532125745	0.002985386	0.024952215			
FAM111B 11	59107185	59127410	+	3863		
protein_coding	family with sequence similarity 111 member B					
[Source:HGNC	Symbol;Acc:HGNC:24200]	-	1741	1439		1476
1126	1264	1045	24.64726734	16.42366371		
17.69962663	14.09337146	14.25873388	12.62808854			
ENSG00000125384	57.84808379	112.161088	105.6022289			
44.20144177	10.05245865	31.39889662	91.87046692			
28.55093235	1.69177658	0.002987438	0.024955714			PTGER2
14	52314305	52328606	+	2473		
protein_coding	prostaglandin E receptor 2 [Source:HGNC					
Symbol;Acc:HGNC:9594]	-	50	121	108	44	11
32	1.105708379	2.157223844	2.023028937			
0.860260093	0.193832754	0.604048622				
ENSG00000048471	728.8858557	720.2410364	681.5254961			
949.3264198	1013.470604	979.2530884	710.2174627			
980.6833708	-0.46575957	0.002992902	0.024977054			SNX29
16	11976737	12574289	+	11298		
protein_coding	sorting nexin 29 [Source:HGNC					
Symbol;Acc:HGNC:30542]	-	630	777	697	945	1109
3.049535489	3.032169021	2.857812053	4.044189103			
4.277485771	4.123585528					
ENSG00000001461	481.2960571	572.855805	325.6068726			
710.236803	753.020539	707.4563895	459.9195782			
723.5712438	-0.65368744	0.00299326	0.024977054			NIPAL3
1	24415794	24472976	+	9404		
protein_coding	NIPA like domain containing 3 [Source:HGNC					
Symbol;Acc:HGNC:25233]	-	416	618	333	707	824
721	2.419220327	2.897409052	1.640340731			
3.635030087	3.81832762	3.579057536				
ENSG00000164294	1607.019768	1154.05417	1416.829905			
782.566435	1152.377305	888.0000451	1392.634614			
940.9812618	0.564724502	0.002998958	0.025010951			GPX8
5	55160118	55167071	+	3868		
protein_coding	glutathione peroxidase 8 (putative) [Source:HGNC					
Symbol;Acc:HGNC:33100]	-	1389	1245	1449	779	1261
905	19.63859858	14.19112561	17.35339194			
9.737606235	14.20650403	10.92215033				
ENSG00000273449	48.59239038	39.85889906	33.24514615			

7.032047554	0	11.77458623	40.56547853	6.268877929	
	2.701433031	0.003002836	0.025024049	AC093788.1	
	4	163529771	163530697	+	927
lincRNA novel transcript		-	42	43	34 7
	0	12	2.477788706	2.045138288	1.699032314
	0.365106464	0	0.604292978		
ENSG00000104723	56.69112211	65.813531	29.33395248		
150.6867333	283.296562	41.21105182	50.61286853		
158.3981157	-1.646990023	0.003005567	0.025024049	TUSC3	
	8	15417215	15766649	+	5190
protein_coding	tumor suppressor candidate 3	[Source:HGNC			
Symbol;Acc:HGNC:30242]	-	49	71	30	150 310
	42	0.516325334	0.603149468	0.267766568	
1.397414089	2.602872732	0.377770437			
ENSG00000145362	646.7415767	698.9211602	485.9658128		
1028.688099	775.8670359	945.8917608	610.5428499		
916.815632	-0.586377304	0.003006255	0.025024049	ANK2	
	4	112818109	113383740	+	18224
protein_coding	ankyrin 2	[Source:HGNC Symbol;Acc:HGNC:493]			
	559	754	497	1024	849 964 1.677501101
	1.824154408	1.263325138	2.716798735	2.030124074	
	2.469331309				
ENSG00000114126	2340.53347	1941.035689	2198.09084		
3299.034881	2641.055046	2801.370308	2159.886666		
2913.820078	-0.432146075	0.003007649	0.025024049	TFDP2	
	3	141944428	142149544	-	11897
protein_coding	transcription factor Dp-2	[Source:HGNC			
Symbol;Acc:HGNC:11751]	E2F	2023	2094	2248	3284 2890
	2855	9.29936157	7.760204636	8.753088129	
13.34648502	10.5856853	11.20249314			
ENSG00000179262	3205.940803	3980.328199	3518.118701		
4748.641256	4510.812355	4745.158252	3568.129235		
4668.203954	-0.387414586	0.003008713	0.025024049	RAD23A	
	19	12945855	12953642	+	2449
protein_coding	"RAD23 homolog A, nucleotide excision repair protein	[Source:HGNC Symbol;Acc:HGNC:9812]"			
	4727	4936	4836	61.87888128	77.30493386 3598
68.05731788	93.32500754	87.83042083	92.18145163		
ENSG00000146416	732.3567407	574.7097073	671.7475119		
401.8312888	506.2783721	406.2232251	659.6046533		
438.110962	0.589149912	0.003026618	0.02515928	AIG1	
	6	143060496	143340304	+	7677
protein_coding	androgen induced 1	[Source:HGNC Symbol;Acc:HGNC:21607]			
	-	633	620	687	400 554 414
4.509276666	3.560689524	4.145411542	2.519240719		
3.14468263	2.51741512				
ENSG00000188342	1846.510834	1738.96034	1752.214762		
926.2211207	1388.153154	1400.194546	1779.228645		
1238.189607	0.522681623	0.003047413	0.025318367	GTF2F2	
	13	45120515	45284909	+	3619

protein_coding	general transcription factor IIF subunit 2						
[Source:HGNC Symbol;Acc:HGNC:4653]	-	1596	1876			1792	
922	1519	1427	24.11787371	22.85484124			
22.93780614	12.31809515		18.29059311	18.40693276			
ENSG00000068796	1823.371601		1534.104138	1439.319269			
1020.651474	1347.029459		989.0652436	1598.931669			
1118.915392	0.514318435		0.003056155	0.025377206		KIF2A	
5	62306162		62537249	+	4774		
protein_coding	kinesin family member 2A [Source:HGNC						
Symbol;Acc:HGNC:6318]	-	1576	1655	1472	1016	1474	
1008	18.05379519		15.28444035	14.28327675			
10.28993212	13.45468909		9.856532387				
ENSG00000178700	672.1947336		527.4351991	469.3432398			
801.6534212	870.9084632		790.8597087	556.3243908			
821.140531	-0.563110381		0.003082254	0.025580031		DHFR2	
3	94047836		94063389	-	4659		
protein_coding	dihydrofolate reductase 2 [Source:HGNC						
Symbol;Acc:HGNC:27309]	-	581	569	480	798	953	
806	6.81990201		5.384600831	4.772555448			
8.281545598	8.913715898		8.075852294				
ENSG00000104635	5570.770469		5810.129751	6115.151295			
4229.274315	3872.024301		5095.452193	5832.017171			
4398.916936	0.40695127		0.003094087	0.025664305			
SLC39A14	8	22367249	22434129	+		6942	
protein_coding	solute carrier family 39 member 14						
[Source:HGNC Symbol;Acc:HGNC:20858]	-	4815	6268			6254	
4210	4237	5193	37.93205703	39.80873126			
41.73262697	29.32234525		26.5969877	34.92044337			
ENSG00000087301	135.3645161		118.649746	184.8039007			
77.3525231	53.91773277		73.59116396	146.2727209			
68.28713994	1.100278404		0.003106574	0.0257539			
TXNDC16 14	52430590		52552522	-	4739		
protein_coding	thioredoxin domain containing 16 [Source:HGNC						
Symbol;Acc:HGNC:19965]	-	117	128	189	77	59	
75	1.350186825		1.190850433	1.847470665			
0.785606798	0.542530178		0.738789289				
ENSG00000249786	10.41265508		14.83121825	5.866790497		0	
0	0	10.37022128	0	5.867806297			
0.003108751	1	EAF1-AS1	3	15436171			
15455940	-	4321	antisense	EAF1 antisense RNA 1			
[Source:HGNC Symbol;Acc:HGNC:42328]	-	9	16	6			
0	0	0	0.113907667	0.163256197			
0.064323466	0	0	0				
ENSG00000183309	1447.359056		1394.134516	1388.473751			
2023.220539	1666.880416		1999.717229	1409.989108			
1896.606061	-0.427690521		0.003112227	0.025786787		ZNF623	
8	143636013		143656418	+	7146		
protein_coding	zinc finger protein 623 [Source:HGNC						
Symbol;Acc:HGNC:29084]	zf-C2H2	1251	1504	1420	2014	1824	
2038	9.573902725		9.279376207	9.205084686			

13.62691889	11.12296114	13.31334553					
ENSG00000261117	16.19746346	14.83121825	1.955596832	0			
0	0	10.99475952	0	5.950169243			
0.003119578	1	AC009486.1	2	12715415			
12716227	+	813	lincRNA novel transcript	-			
14	16	2	0	0	0.941742571		
0.867687608	0.113957236	0	0	0			
ENSG00000170860	1925.184228	1480.340972	1716.03622				
1052.797977	1206.295038	1384.495098	1707.18714				
1214.529371	0.490749523	0.003128272	0.025905683	LSM3			
3	14178358	14201119	+	3815			
protein_coding	"LSM3 homolog, U6 small nuclear RNA and mRNA degradation associated [Source:HGNC Symbol;Acc:HGNC:17874]"					-	
1664	1597	1755	1048	1320	1411	23.85357584	
18.45628687	21.31007775	13.28213704	15.07780029				
17.26547406							
ENSG00000146757	360.9720428	329.067655	335.3848567				
174.7966106	223.89567	228.623216	341.8081849				
209.1051655	0.70807762	0.003134614	0.025934641	ZNF92			
7	65373799	65401135	+	3512			
protein_coding	zinc finger protein 92 [Source:HGNC Symbol;Acc:HGNC:13168] zf-C2H2					312	355
233	4.858417132	4.456642564	4.524202846			245	
2.395498799	3.039976139	3.097044529					
ENSG00000097046	783.2630545	738.7800593	786.1499266				
497.2662199	564.7654042	561.2552771	769.3976801				
541.0956338	0.507489669	0.003135162	0.025934641	CDC7			
1	91500893	91525764	+	3557			
protein_coding	cell division cycle 7 [Source:HGNC Symbol;Acc:HGNC:1745]					-	677
572	10.40877249	9.878896017	10.47067403			618	
6.728566519	7.571173659	7.506857976					
ENSG00000157693	463.941632	453.2791079	467.3876429				
773.525231	710.9829846	568.1237858	461.5361276				
684.2106671	-0.568057499	0.00315958	0.026121888				
TMEM268	9	114611206	114646422	+	4792		
protein_coding	transmembrane protein 268 [Source:HGNC Symbol;Acc:HGNC:24513]					-	401
579	4.576382076	4.499103745	4.620761393			778	
7.769179084	7.074917588	5.640372548					
ENSG00000033122	15.04050178	29.66243651	37.15633981				
7.032047554	0.913859877	0	27.28642604	2.648635811			
3.380464723	0.003161215	0.026121888	LRRC7	1			
69568398	70151945	+	14652	protein_coding			
leucine rich repeat containing 7 [Source:HGNC Symbol;Acc:HGNC:18531]	-					13	32
0	0.048522275	0.096291295	0.120140419			1	
0.023099488	0.002974142	0					
ENSG00000101544	1351.331237	1364.472079	1507.765158				
2079.47692	1875.240468	1726.939314	1407.856158				

1893.885567	-0.427674347	0.00316614	0.02614845	ADNP2
18	80109031	80147523	+ 5893	
protein_coding	ADNP homeobox 2	[Source:HGNC	Symbol;Acc:HGNC:23803]	
Others	1168 1472	1542 2070	2052 1760	
10.83929695	11.01299208	12.12133317	16.98380993	
15.1739802	13.9419096			
ENSG00000149182	2052.450013	2171.846523	2042.620891	
2637.017833	2750.718231	2719.92942	2088.972476	
2702.555161	-0.371455176	0.003170269	0.026168413	
ARFGAP2 11	47164299	47177125	- 5918	
protein_coding	ADP ribosylation factor GTPase activating protein 2			
[Source:HGNC	Symbol;Acc:HGNC:13504]	-	1774 2343 2089	
2625	3010 2772	16.39356351	17.4554595	
16.35181387	21.44645736	22.16410161	21.8657461	
ENSG00000189046	443.1163218	598.810437	491.8326033	
808.6854687	756.6759785	696.6630188	511.2531207	
754.0081554	-0.559343294	0.003173923	0.026184433	ALKBH2
12	109088188	109093631	- 2290	
protein_coding	"alkB homolog 2, alpha-ketoglutarate dependent			
dioxygenase	[Source:HGNC	Symbol;Acc:HGNC:32487]"	-	383
646	503 805	828 710	9.146564565	
12.43743986	10.17501267	16.99658281	15.75627138	
14.47334459				
ENSG00000165487	1396.452743	1154.05417	1217.359028	
680.0994563	941.2756737	976.3094419	1255.955314	
865.8948573	0.535878139	0.003184663	0.026258866	MICU2
13	21492691	21604214	- 3645	
protein_coding	mitochondrial calcium uptake 2	[Source:HGNC	Symbol;Acc:HGNC:31830]	
995	18.10941621	15.05933439	15.82246977	1030
8.980331169	12.31397563	12.74299709		
ENSG00000102575	118.0100909	205.7831533	212.1822563	
55.25180221	68.53949081	116.7646468	178.6585002	
80.18531328	1.157631488	0.003188607	0.026277216	ACP5
19	11574660	11579008	- 2919	
protein_coding	"acid phosphatase 5, tartrate resistant	[Source:HGNC	Symbol;Acc:HGNC:124]"	
119	1.911000451	3.353148887	3.443722076	75
0.911023985	1.119658976	1.903088138		
ENSG00000234883	595.835263	543.1933685	443.9204809	
721.2871634	836.1817878	762.4044586	527.6497042	
773.2911366	-0.552371505	0.003191115	0.026283719	
MIR155HG	21 25561909	25575168	+ 1600	
lincRNA	MIR155 host gene	[Source:HGNC	Symbol;Acc:HGNC:35460]	
-	515 586	454 718	915 777	
17.60280829	16.14773417	13.14432613	21.69729921	
24.92066971	22.66976781			
ENSG00000234432	5.784808379	29.66243651	25.42275882	
62.28384977	60.31475191	95.17790539	20.29000124	
72.59216902	-1.826934977	0.003205787	0.026383149	

AC092171.3	7	5426277	5428927	-	2651	lincRNA	
uncharacterized LOC100129484		[Source:NCBI	gene;Acc:100129484]		-		
	5	32	26	62	66	97	0.103146617
	0.532199189	0.454324415	1.130793174				1.084907735
	1.70807935						
ENSG00000153823	173.5442514		164.9973031		208.2710626		
91.4166182	94.12756737		104.0088451		182.2708724		
96.51767688	0.917391741		0.003208227		0.026383149	PID1	
	2	228850526	229271285		-	3364	
protein_coding	phosphotyrosine	interaction	domain	containing	1		
[Source:HGNC	Symbol;Acc:HGNC:26084]		-	150	178	213	
	91	103	106	2.438540566	2.332909938		
2.933094612	1.307936386		1.334258061		1.470943237		
ENSG00000213030	46.27846703		54.69011731		66.4902923		
7.032047554	12.79403828		24.53038799		55.81962555		
14.78549127	1.917193027		0.003208365		0.026383149	CGB8	
	19	49047638	49049106		-	882	
protein_coding	chorionic gonadotropin	subunit	beta	8	[Source:HGNC		
Symbol;Acc:HGNC:16453]		-	40	59	68	7	14
	25	2.480196664	2.949289363		3.571435271		
0.383734345	0.691700434		1.323175526				
ENSG00000165475	439.6454368		421.7627691		295.2951217		
619.824763	593.0950604		571.0674323		385.5677758		
594.6624186	-0.625817586		0.003216045		0.026432082	CRYL1	
	13	20403666	20525873		-	4327	
protein_coding	crystallin	lambda	1	[Source:HGNC			
Symbol;Acc:HGNC:18246]		-	380	455	302	617	649
	582	4.802765853	4.636160468		3.233125058		
6.894447761	6.536065554		6.278879165				
ENSG00000143774	3251.062309		4192.60001		3569.942017		
4385.988517	5222.709199		5112.132856		3671.201445		
4906.943524	-0.418369694		0.00322456		0.026487826	GUK1	
	1	228139962	228148984		+	4725	
protein_coding	guanylate	kinase	1	[Source:HGNC	Symbol;Acc:HGNC:4693]		
	-	2810	4523	3651	4366	5715	5210
32.52364558	42.20449741		35.7941848		44.67691069		
52.70757309	51.47329219						
ENSG00000196591	4480.91257		3773.618094		3603.187164		
2670.168914	3180.232373		3042.749326		3952.572609		
2964.383538	0.414754146		0.003227023		0.026493827	HDAC2	
	6	113933028	114011308		-	15461	
protein_coding	histone	deacetylase	2	[Source:HGNC			
Symbol;Acc:HGNC:4853]		-	3873	4071	3685	2658	3480
	3101	13.69949725	11.60907134		11.04084639		
8.312250312	9.808447267		9.362896485				
ENSG00000157911	414.1922799		342.9719221		327.5624694		
508.3165803	545.5743468		581.860803		361.5755571		
545.2505767	-0.593942981		0.003237973		0.026569458	PEX10	
	1	2403964	2413797	-	3789	protein_coding	
peroxisomal	biogenesis	factor	10	[Source:HGNC	Symbol;Acc:HGNC:8851]		

-	358	370	335	506	597	593		
5.167174569	4.305375913		4.095648315		6.456945609			
6.866071531	7.305940381							
ENSG00000184990	932.5111106		1295.877695		1458.875237			
814.7129381	724.6908828		940.0044677		1229.088014			
826.4694295	0.573383669		0.003242446		0.026583987		SIVA1	
14	104753100		104768494		+ 4776			
protein_coding	SIVA1 apoptosis inducing factor			[Source:HGNC				
Symbol;Acc:HGNC:17712]	-		806	1398	1492	811	793	
958	9.229229306		12.90555872		14.47128047			
8.21027592	7.235481992		9.363694302					
ENSG00000065183	7494.797735		7660.324228		6219.775725			
9080.382549	9219.018443		9330.378375		7124.965896			
9209.926456	-0.3703407		0.003243222		0.026583987		WDR3	
1	117929720		117966542		+ 10275			
protein_coding	WD repeat domain 3			[Source:HGNC		Symbol;Acc:HGNC:12755]		
-	6478	8264	6361	9039	10088	9509		
34.47893366	35.46030249		28.67781249		42.53434725			
42.78404484	43.20152253							
ENSG00000165383	11.56961676		1.853902282		19.55596832		0	
0	0	10.99316245	0		5.950300682			
0.003247533	1	LRRC18	10	48909483		48914232		
-	1617	protein_coding		leucine rich repeat containing				
18	[Source:HGNC		Symbol;Acc:HGNC:23199]		-	10	2	20
0	0	0	0.338208636		0.054532315			
0.57295753	0	0	0					
ENSG00000223653	23.13923351		8.342560268		8.800185745		0	
0	0.981215519		13.42732651		0.32707184			
5.274276345	0.003250365		1	AL078459.1	1			
85276715	85448124		+	2277	antisense		novel	
transcript	-	20	9	9	0	0	1	
0.480354295	0.174266311		0.183097298		0		0	
0.020501376								
ENSG00000205581	5353.261674		5594.150135		6174.796998			
4454.299836	4310.677042		4593.069847		5707.402936			
4452.682242	0.358261141		0.003256454		0.026675676		HMG1	
21	39342315		39349647		- 5102			
protein_coding	high mobility group nucleosome binding domain 1			[Source:HGNC		Symbol;Acc:HGNC:4984]		
4434	4717	4681	49.59681158		4627	6035	6315	
57.33705155	42.02003898		40.28877102		42.82962015			
ENSG00000180089	85.615164		101.9646255		51.82331606			
20.09156444	22.84649694		38.26740526		79.80103518			
27.06848888	1.560214493		0.003257898		0.026675676			
TMEM86B	19	55226639	55229264		- 2626			
protein_coding	transmembrane protein 86B			[Source:HGNC		Symbol;Acc:HGNC:28448]		
39	1.541103159		1.846851266		0.934939705		25	
0.368244688	0.414862218		0.693291573					
ENSG00000100479	367.9138129		322.578997		425.342311			

216.988896	257.7084854	213.9049832	371.9450403	
229.5341215	0.695732608	0.003259999	0.026678589	POLE2
14	49643555	49688422	- 2955	
protein_coding	"DNA polymerase epsilon 2, accessory subunit [Source:HGNC Symbol;Acc:HGNC:9178]"			
216	282	218	5.885242296	5.192251455
6.819212554	3.534251756	4.158629412	3.44385648	
ENSG00000102595	645.584615	539.485564	684.4588913	
506.3074239	312.5400781	360.1060956	623.1763568	
392.9845325	0.665560743	0.003264083	0.026691921	UGGT2
13	95801580	96053482	- 8105	
protein_coding	UDP-glucose glycoprotein glucosyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:15664]			
504	342	367	3.765094599	3.165949065
4.000805851	3.006621327	1.838788101	2.113776576	
ENSG00000080166	5.784808379	0.926951141	0	23.10529911
35.64053522	14.71823279	2.237253173	24.48802237	
-3.509026621	0.00326512	0.026691921	DCT	13
94436808	94479682	-	7543	protein_coding
	dopachrome tautomerase [Source:HGNC Symbol;Acc:HGNC:2709]			
-	5	1	0	23
0.036251052	0.005845072	0	0.147429687	0.225309289
0.092831034				
ENSG00000179869	160.8176729	167.7781565	117.3358099	
241.0987733	211.1016317	390.5237767	148.6438798	
280.9080606	-0.918257704	0.003282393	0.026810613	ABCA13
7	48171458	48647496	+ 19074	
protein_coding	ATP binding cassette subfamily A member 13 [Source:HGNC Symbol;Acc:HGNC:14638]			
240	231	398	0.398536163	0.418379845
0.291435145	0.608374048	0.527750677	0.974063634	
ENSG00000143420	2289.627156	2805.881103	3064.420236	
1785.135501	2249.923018	1880.008935	2719.976165	
1971.689151	0.464298183	0.003283147	0.026810613	ENSA
1	150600851	150629612	- 5493	
protein_coding	endosulfine alpha [Source:HGNC Symbol;Acc:HGNC:3360]			
-	1979	3027	3134	1777
19.70293424	24.29611194	26.42967659	15.64152328	
19.53156518	16.28290697			
ENSG00000167566	450.0580919	807.3744437	782.2387329	
1019.646895	1036.317101	1104.848675	679.8904228	
1053.604224	-0.630477823	0.003285845	0.026816368	
NCKAP5L 12	49791146	49828750	- 8090	
protein_coding	NCK associated protein 5 like [Source:HGNC Symbol;Acc:HGNC:29321]			
1126	2.629636943	4.746829048	4.580827324	1134
6.066228109	6.108338989	6.497344655		
ENSG00000169871	1117.624979	1175.374047	1318.072265	
1793.172126	1409.171931	1799.549263	1203.69043	
1667.297773	-0.469605688	0.003288084	0.026816368	TRIM56

7	101085439	101097967	+	11173	
protein_coding	tripartite motif containing 56 [Source:HGNC				
Symbol;Acc:HGNC:19028]	-	966	1268	1348	1785
1834	4.728267519	5.00360955		5.58885123	1542
7.72448685	6.014135002	7.662589645			
ENSG00000135362	180.4860214	160.3625474		229.7826278	
114.5219173	66.71177105	104.0088451		190.2103989	
95.08084448	1.001868251	0.003289114		0.026816368	PRR5L
11	36296288	36465204	+	6616	
protein_coding	proline rich 5 like [Source:HGNC				
Symbol;Acc:HGNC:25878]	-	156	173	235	114
106	1.289507328	1.152881219		1.645412611	73
0.833125776	0.480823805	0.747922166			
ENSG00000198642	1718.088088	1760.280216		1409.985316	
2271.35136	2782.703327	1876.084073		1629.451207	
2310.046253	-0.503753749	0.003298158		0.026875768	KLHL9
9	21329671	21335380	-	5710	
protein_coding	kelch like family member 9 [Source:HGNC				
Symbol;Acc:HGNC:18732]	-	1485	1899	1442	2261
1912	14.22279853	14.66299932		11.69853848	3045
19.14545406	23.23859068	15.6313978			
ENSG0000009954	3971.849433	3626.232863		4200.621996	
3199.581637	2906.07441	2995.650981		3932.901431	
3033.769009	0.374478056	0.00330883		0.026948364	BAZ1B
7	73440398	73522278	-	7053	
protein_coding	bromodomain adjacent to zinc finger domain 1B				
[Source:HGNC Symbol;Acc:HGNC:961]	-			3433	3912
3185	3180	3053		26.61917751	24.45450747
28.21583095	21.83417412	19.64770523		20.20686576	
ENSG00000214078	3406.095173	3553.003723		3829.058598	
2428.065563	2566.118536	3104.565904		3596.052498	
2699.583334	0.413772259	0.003317907		0.0270079	CPNE1
20	35626031	35664956	-	3608	
protein_coding	copine 1 [Source:HGNC Symbol;Acc:HGNC:2314]				-
2944	3833	3916	2417	2808	3164
46.83885267	50.27807136	32.39002909		33.91479313	
40.93699706					
ENSG00000234797	527.5745241	554.3167822		509.4329748	
687.1315039	753.020539	843.8453467		530.4414271	
761.3324632	-0.521247686	0.003326429		0.027060544	
RPS3AP6 15	59768352	59769146	+	795	
processed_pseudogene	ribosomal protein S3A pseudogene 6				
[Source:HGNC Symbol;Acc:HGNC:18630]	-			456	598
684	824	860		31.36840429	33.16408452
30.35799258	41.59969913	45.16673326		50.49836981	
ENSG00000188612	3444.274909	3493.67885		4122.398123	
2913.276844	2731.527174	2813.144894		3686.78396	
2819.316304	0.387151316	0.003327914		0.027060544	SUM02
17	75165586	75182983	-	3372	
protein_coding	small ubiquitin-like modifier 2 [Source:HGNC				

Symbol;Acc:HGNC:11125]	-	2977	3769	4216	2900	2989
2867	48.28208113	49.28020769		57.91825812		
41.58260075	38.62753074	39.69046279				
ENSG00000067445	112.2252825	175.1937656		74.31267963		
163.7462502	292.4351608	304.176811		120.5772426		
253.4527407	-1.070693356	0.003335915		0.027111183		TRO
X	54920462	54931431		+ 6716		
protein_coding	trophinin [Source:HGNC Symbol;Acc:HGNC:12326]					-
97	189	76	163	320	310	0.789870255
1.240752259	0.524210071		1.173486596		2.076337218	
2.154750758						
ENSG00000152207	124.951861	178.9015702		74.31267963		
199.9110662	355.4914923	228.623216		126.0553703		
261.3419248	-1.051557585	0.003340201		0.027131593		
CYSLTR2	13	48653711	48711226	+ 5372		
protein_coding	cysteinyl leukotriene receptor 2 [Source:HGNC					
Symbol;Acc:HGNC:18274]	-	108	193	76	199	389
233	1.099467672	1.584000313		0.655360171		
1.791093628	3.15552914	2.024724569				
ENSG00000055130	1670.65266	1431.212561		1503.853964		
1155.264955	1117.65063	1156.853097		1535.239728		
1143.256228	0.424963286	0.003350086		0.027197434		CUL1
7	148697914	148801036		+ 3548		
protein_coding	cullin 1 [Source:HGNC Symbol;Acc:HGNC:2551]					-
1444	1544	1538	1150	1223	1179	22.25759803
19.18658327	20.08053041		15.67167605		15.02108984	
15.51230124						
ENSG00000144642	518.3188307	374.4882609		432.1868999		
289.3185279	291.5213009	260.0221127		441.6646639		
280.2873138	0.65475881	0.003358746		0.02724733		RBMS3
3	28574791	30010391		+ 18339		
protein_coding	RNA binding motif single stranded interacting protein					
3 [Source:HGNC Symbol;Acc:HGNC:13427]	-			448	404	442
288	319	265	1.335971139	0.971269324		
1.116475185	0.759308137	0.758007723		0.674553281		
ENSG00000135124	416.5062033	338.3371664		244.449604		
601.742355	524.5555696	485.7016821		333.0976579		
537.3332023	-0.691327078	0.003359797		0.02724733		P2RX4
12	121209857	121234106		+ 8159		
protein_coding	purinergic receptor P2X 4 [Source:HGNC					
Symbol;Acc:HGNC:8535]	-	360	365	250	599	574
495	2.413016438	1.972376817		1.419402387		
3.549695547	3.065727553	2.832137286				
ENSG00000095319	2916.700384	3066.354374		3176.867054		
2569.711092	2060.754024	2301.931609		3053.307271		
2310.798908	0.402228218	0.003370298		0.027317997		NUP188
9	128947699	129007096		+ 8041		
protein_coding	nucleoporin 188 [Source:HGNC Symbol;Acc:HGNC:17859]					
-	2521	3308	3249	2558	2255	2346
17.14578985	18.13799997	18.71725275		15.38125225		

12.22067183	13.61958836					
ENSG00000184378	41.65062033	56.54401959	39.11193665			
80.36625776	125.1988032	121.6707244	45.76885885			
109.0785951	-1.251366539	0.00339792	0.027527297	ACTRT3		
3	169766921	169769895	- 2005			
protein_coding	actin related protein T3 [Source:HGNC					
Symbol;Acc:HGNC:24022]	-	36 61	40 80	137		
124	0.981935218	1.341372554	0.924161921			
1.929198104	2.977589251	2.887043609				
ENSG00000171680	232.5492968	431.0322805	419.4755205			
731.3329456	549.2297863	536.7248891	361.0190326			
605.7625404	-0.744418355	0.003400528	0.027533829			
PLEKHG5 1	6466092 6520061	- 7053	protein_coding			
pleckstrin homology and RhoGEF domain containing G5 [Source:HGNC						
Symbol;Acc:HGNC:29105]	-	201 465	429 728	601		
547	1.558536172	2.90678578	2.817642336			
4.99066837	3.713292718	3.62042436				
ENSG00000107566	1802.546291	1695.393637	1934.085267			
1238.644948	1406.430351	1413.931564	1810.675065			
1353.002288	0.420208707	0.003404885	0.027547153	ERLIN1		
10	100150094	100188334	- 5792			
protein_coding	ER lipid raft associated 1 [Source:HGNC					
Symbol;Acc:HGNC:16947]	-	1558 1829	1978 1233	1539		
1441	14.71070928	13.92256039	15.8197709			
10.29285228	11.57893629	11.61399042				
ENSG00000122779	776.3212844	621.9842155	836.0176458			
483.2021248	551.0575061	482.7580356	744.7743819			
505.6725555	0.557945487	0.003407232	0.027547153	TRIM24		
7	138460334	138589993	+ 9223			
protein_coding	tripartite motif containing 24 [Source:HGNC					
Symbol;Acc:HGNC:11812]	-	671 671	855 481	603		
492	3.978735091	3.207630021	4.294339363			
2.52158774	2.849073815	2.490226956				
ENSG00000148843	3060.163632	3457.527755	3310.825437			
4771.746555	3672.802847	4676.473166	3276.172275			
4373.674189	-0.416590312	0.003407579	0.027547153	PDCD11		
10	103396626	103446292	+ 7670			
protein_coding	programmed cell death 11 [Source:HGNC					
Symbol;Acc:HGNC:13408]	-	2645 3730	3386 4750	4019		
4766	18.85927638	21.44111795	20.45003453			
29.94328626	22.83396021	29.00712657				
ENSG00000119523	620.1314582	654.4275054	589.6124449			
888.0471483	957.7251515	788.8972777	621.3904695			
878.2231925	-0.499129782	0.003412812	0.027574871	ALG2		
9	99216426	99221956	- 2983			
protein_coding	"ALG2, alpha-1,3/1,6-mannosyltransferase [Source:HGNC					
Symbol;Acc:HGNC:23159]"	-	536 706	603 884	1048		
804	9.826667223	10.43483066	9.36411017			
14.32848351	15.30969811	12.58197539				
ENSG00000107731	1059.776895	1066.920763	2301.737472			

795.6259518	496.2259134	560.2740616	1476.145043	
617.375309	1.257819535	0.003417959	0.027601872	UNC5B
10	71212570	71302864	+ 6841	
protein_coding	unc-5 netrin receptor B [Source:HGNC			
Symbol;Acc:HGNC:12568]	-	916 1151	2354 792	543
571	7.322689106	7.418048888	15.94003695	
5.597663759	3.458906615	3.896391199		
ENSG00000173327	1721.558973	2258.97993	2685.034451	
2818.846491	3070.569188	3571.624491	2221.857785	
3153.680057	-0.504861656	0.003424952	0.027643738	
MAP3K11 11	65597755	65615382	- 10564	
protein_coding	mitogen-activated protein kinase kinase kinase 11			
[Source:HGNC Symbol;Acc:HGNC:6850]	-		1488 2437	2746
2806	3360 3640	7.703165904	10.17094005	
12.04133381	12.84282281	13.86019954	16.08492451	
ENSG00000180044	86.77212568	123.2845017	170.1369244	
57.26095866	46.60685375	61.81657773	126.7311839	
55.22813004	1.200863017	0.003428918	0.027661141	
C3orf80 3	160225496	160228213	+ 2718	
protein_coding	chromosome 3 open reading frame 80 [Source:HGNC			
Symbol;Acc:HGNC:40048]	-	75 133	174 57	51
63	1.509060056	2.157427184	2.965529521	
1.013973535	0.817672368	1.082024596		
ENSG00000150551	41.65062033	100.1107232	49.86771922	
25.11445555	18.27719755	11.77458623	63.87635425	
18.38874644	1.799942189	0.003434522	0.02769174	LYPD1
2	132644853	132671579	- 2412	
protein_coding	LY6/PLAUR domain containing 1 [Source:HGNC			
Symbol;Acc:HGNC:28431]	-	36 108	51 25	20
12	0.816243827	1.97415119	0.979479449	
0.5011456	0.361336048	0.232246928		
ENSG00000134308	10753.95878	9026.65021	9411.309756	
7234.972355	8036.483762	7432.70756	9730.63958	
7568.054559	0.362481589	0.003442885	0.027744538	YWHAQ
2	9583972 9631014	- 2713	protein_coding	
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein				
theta [Source:HGNC Symbol;Acc:HGNC:12854]			- 9295 9738	
9625 7202 8794 7575		187.367522	158.2537225	
164.3438286 128.3525614		141.2522145	130.3403489	
ENSG00000115825	2223.680341	1857.610086	1970.263809	
1518.922272	1630.326021	1304.035425	2017.184745	
1484.427906	0.44199233	0.0034666	0.027920925	PRKD3
2	37250502	37324808	- 10244	
protein_coding	protein kinase D3 [Source:HGNC Symbol;Acc:HGNC:9408]			
-	1922 2004	2015 1512	1784 1329	
10.2607363	8.625059612	9.111878843	7.136469891	
7.588988208	6.056217265			
ENSG00000147383	1036.637661	1253.237942	1077.533855	
1528.968054	1472.228263	1556.207814	1122.469819	
1519.13471	-0.436009945	0.003469084	0.027926218	NSDHL

X	152830967	152869729	+	1996	
protein_coding	NAD(P) dependent steroid dehydrogenase-like				
[Source:HGNC Symbol;Acc:HGNC:13398]		-	896	1352	1102
1522	1611	1586	24.54947367	29.86414686	
25.57546352	36.8684884	35.17171952	37.09272006		
ENSG00000105738	1898.57411	2584.339781	2629.299941		
3437.666676	2864.036856	3552.981396	2370.737944		
3284.894976	-0.469999046	0.003478922	0.02797742		
SIPA1L3	19	37907228	38208372	+	10335
protein_coding	signal induced proliferation associated 1 like 3				
[Source:HGNC Symbol;Acc:HGNC:23801]		-	1641	2788	2689
3422	3134	3621	8.683460095	11.89367991	
12.05265644	16.00924094	13.21438966	16.35550958		
ENSG00000165678	4070.191175	3563.200185	3777.235282		
3099.123815	2920.696168	2805.29517	3803.542214		
2941.705051	0.370542887	0.003479105	0.02797742		GHITM
10	84139440	84153245	+	2128	
protein_coding	growth hormone inducible transmembrane protein				
[Source:HGNC Symbol;Acc:HGNC:17281]		-	3518	3844	3863
3085	3196	2859	90.41051107	79.64265205	
84.09216627	70.0946322	65.44760292	62.71747532		
ENSG00000182749	177.0151364	211.3448601	194.5818848		
277.2635893	383.8211485	310.0641042	194.3139604		
323.7162806	-0.735797834	0.003490913	0.028057618		PAQR7
1	25861210	25871253	-	3297	
protein_coding	progesterin and adipoQ receptor family member 7				
[Source:HGNC Symbol;Acc:HGNC:23146]		-	153	228	199
276	420	316	2.537857287	3.048946879	
2.795996253	4.047541883	5.551226414	4.474187409		
ENSG00000178662	3.470885027	10.19646255	17.60037149		0
0	0	10.42257302	0	5.877302771	
0.003493741	1	CSRNP3	2	165469647	165689407
+	12565	protein_coding		cysteine and serine rich	
nuclear protein	3 [Source:HGNC Symbol;Acc:HGNC:30729]				3
11	18	0	0	0	0.013057303
0.038597942	0.066360931	0	0	0	
ENSG00000112541	290.3973806	277.1583911	296.2729201		
134.6134818	190.9967144	182.5060866	287.9428973		
169.3720943	0.764714253	0.00349408	0.028068311		PDE10A
6	165327287	165988078	-	22022	
protein_coding	phosphodiesterase 10A [Source:HGNC				
Symbol;Acc:HGNC:8772]		-	251	299	303
186	0.623320881	0.598616093	0.637365169		209
0.294204463	0.413569141	0.394277707			
ENSG00000151623	134.2075544	148.3121825	93.86864795		
237.0804604	215.6709311	233.5292936	125.462795		
228.7602284	-0.866587624	0.003496655	0.028074248		NR3C2
4	148078762	148444698	-	6607	
protein_coding	nuclear receptor subfamily 3 group C member 2				
[Source:HGNC Symbol;Acc:HGNC:7979]		ESR-like		116	160

96	236	236	238	0.960170581	1.067700961		
0.673084178		1.727065913		1.556561534	1.681584463		
ENSG00000128016	192.0556382		225.2491272	192.626288			
271.2361199	364.6300911		376.7867595	203.3103511			
337.5509902	-0.730958447		0.003505887	0.0281245		ZFP36	
19	39406813		39409412	+	2010		
protein_coding	ZFP36 ring finger protein [Source:HGNC						
Symbol;Acc:HGNC:12862]	-		166	243	197	270	
384	4.516549178		5.330208213	4.54017533		399	
6.494846977	8.650384982		8.91828204				
ENSG00000260686	101.8126275		60.25182416	46.93432398			
210.9614266	119.7156439		143.2574658	69.66625853			
157.9781788	-1.185552272		0.003506594	0.0281245			
AC008669.1	5	122832356	122834533	+		2178	
sense_overlapping	"novel transcript, overlapping SNX2"						
-	88	65	48	210	131	146	
2.209629755	1.315798658		1.020906145	4.66189659			
2.621030158	3.129255442						
ENSG00000153406	741.6124341		903.7773623	861.4404046			
1081.930745	1169.740643		1218.669675	835.610067			
1156.780354	-0.468522452		0.003519437	0.02821271		NMRAL1	
16	4461680	4495763	-	3541	protein_coding	NmrA	
like redox sensor 1 [Source:HGNC	Symbol;Acc:HGNC:24987]					-	641
975	881	1077	1280	1242	9.899808995		
12.13983117	11.52530527		14.70587916	15.75225163			
16.37350682							
ENSG00000184076	366.7568512		390.2464303	447.8316746			
259.1811813	190.9967144		288.4773627	401.611652			
246.2184195	0.707009721		0.00352433	0.028234083		UQCR10	
22	29767369		29770413	+	975		
protein_coding	"ubiquinol-cytochrome c reductase, complex III subunit						
X [Source:HGNC	Symbol;Acc:HGNC:30863]"					-	317
258	209	294	17.78072067	19.03756671		421	
21.76022182	12.79429343		9.341148325	14.07630766		458	
ENSG00000092098	397.9948164		407.858502	489.8770065			
646.948375	590.3534808		668.2077688	431.9101083			
635.1698749	-0.555794218		0.003525797	0.028234083		RNF31	
14	24146683		24160661	+	4982		
protein_coding	ring finger protein 31 [Source:HGNC						
Symbol;Acc:HGNC:16031]	-		344	440	501	644	
681	3.776151693		3.893883118	4.658396582		646	
6.250048114	5.650506678		6.38100999				
ENSG00000189369	456.9998619		532.0699548	412.6309316			
611.7881372	824.3016094		667.2265532	467.2335828			
701.1054333	-0.585457368		0.003529575	0.028249538		GSPT2	
X	51743431		51746232	+	2802		
protein_coding	G1 to S phase transition 2 [Source:HGNC						
Symbol;Acc:HGNC:4622]	-		395	574	422	609	
680	7.709454993		9.031870862	6.976647425		902	
10.50873349	14.02804028		11.32887585				

ENSG00000184492	10.41265508	19.46597396	9.777984162		
36.16481599	43.86527412	73.59116396	13.21887107		
51.20708469	-1.947254223	0.003535257	0.028280208		
FOXD4L1 2	113498665	113501155	+	2491	
protein_coding	forkhead box D4	like 1	[Source:HGNC		
Symbol;Acc:HGNC:18521]	Fork	9	21	10	36
75	0.197589333	0.371688843	0.185963935		48
0.698763143	0.839703779	1.405508808			
ENSG00000254701	2.313923351	9.269511408	20.53376674		0
0	0	10.70573383	0	5.916177706	
0.003535808	1	AC138866.2	5	70197255	
70207745	-	584			
unprocessed_pseudogene	"glucuronidase, beta (GUSB) pseudogene"	-			
2	10	21	0	0	0.187288823
0.754955078	1.665746477	0	0	0	
ENSG00000168938	292.711304	204.8562021	220.9824421		
76.34794487	162.6670582	125.5955865	239.5166494		
121.5368632	0.976025189	0.003541404	0.028308976		PPIC
5	123023250	123036741	-	2098	
protein_coding	peptidylprolyl isomerase C	[Source:HGNC			
Symbol;Acc:HGNC:9256]	-	253	221	226	76
128	6.594923316	4.644305159	4.990055904		178
1.751496706	3.697201463	2.848069098			
ENSG00000072501	5352.104712	5658.109764	7707.984915		
5271.021931	3187.543252	4388.977019	6239.399797		
4282.514067	0.543114497	0.003542557	0.028308976		SMC1A
X	53374149	53422728	-	10484	
protein_coding	structural maintenance of chromosomes 1A	[Source:HGNC			
Symbol;Acc:HGNC:11111]	-	4626	6104	7883	5247
4473	24.13088939	25.66974005	34.83108235		3488
24.19832294	14.49799888	19.91672476			
ENSG00000197885	792.5187479	695.2133556	488.8992081		
906.1295563	948.5865528	1124.472985	658.8771039		
993.0630314	-0.592669905	0.003554336	0.028378287		
NKIRAS1 3	23891660	23946591	-	3473	
protein_coding	NFKB inhibitor interacting Ras like 1	[Source:HGNC			
Symbol;Acc:HGNC:17899]	-	685	750	500	902
1146	10.78649884	9.521172598	6.669106869		1038
12.55749375	13.02420334	15.40372903			
ENSG00000110274	1235.63507	1777.892288	1824.571845		
2354.731352	2078.117361	2388.278574	1612.699734		
2273.709096	-0.494830926	0.003554943	0.028378287		CEP164
11	117314557	117413268	+	12898	
protein_coding	centrosomal protein 164	[Source:HGNC			
Symbol;Acc:HGNC:29182]	-	1068	1918	1866	2344
2434	4.528387603	6.556320691	6.701804004		2274
8.786915525	7.682926624	8.809357547			
ENSG00000157470	92.55693406	128.8462086	166.2257307		
31.14192488	57.57317228	71.62873292	129.2096245		
53.44794336	1.273980114	0.003570174	0.028484991		FAM81A

15	59372693	59523549	+	5578			
protein_coding	family with sequence similarity		81	member A			
[Source:HGNC Symbol;Acc:HGNC:28379]		-	80	139	170		
31	63	73	0.784343298	1.098677545			
1.411798991	0.268710354	0.492176232	0.610928501				
ENSG00000134030	462.7846703	685.9438442	624.8131879				
854.8960669	828.8709088	933.135959	591.1805675				
872.3009783	-0.559751884	0.003585663	0.028593652		CTIF		
18	48539046	48863217	+	8100			
protein_coding	cap binding complex dependent translation initiation						
factor [Source:HGNC Symbol;Acc:HGNC:23925]		-	400	740			
639	851	907	951	2.700658589	4.027918354		
3.65441862	5.079789987	4.879562285	5.480769452				
ENSG00000032444	2659.854892	3188.711925	3204.24541				
3937.94663	3814.451128	4059.288604	3017.604076				
3937.228788	-0.38345057	0.00359125	0.028609312		PNPLA6		
19	7534004	7561764	+	7172	protein_coding		
patatin like phospholipase domain containing 6	[Source:HGNC						
Symbol;Acc:HGNC:16268]		-	2299	3440	3277	3920	4174
4137	17.53046367	21.14716333	21.16599145				
26.42694754	25.36125622	26.92720495					
ENSG00000156787	495.1795972	495.9188604	568.1008798				
408.8633364	310.7123583	284.5525006	519.7331124				
334.7093984	0.635440711	0.00359137	0.028609312				
TBC1D31 8	123041968	123152153	+	8611			
protein_coding	TBC1 domain family member 31		[Source:HGNC				
Symbol;Acc:HGNC:30888]		-	428	535	581	407	340
290	2.718221808	2.739265645	3.125539551				
2.285293774	1.720615875	1.572137201					
ENSG00000143971	666.4099252	499.6266649	471.2988366				
323.4741875	353.6637726	381.6928371	545.7784756				
352.943599	0.627627141	0.003596475	0.028621426		ETAA1		
2	67397319	67412089	+	7480			
protein_coding	"ETAA1, ATR kinase activator		[Source:HGNC				
Symbol;Acc:HGNC:24648]"		-	576	539	482	322	387
389	4.211294356	3.177028606	2.985024474				
2.081399713	2.254592017	2.427694527					
ENSG00000274762	33.5518886	21.31987624	13.68917783		0		
0	4.906077597	22.85364755	1.635359199				
3.811776126	0.003596635	0.028621426	AL049777.1		14		
28818741	28819258	+	518	antisense			
novel transcript		-	29	23	14	0	
0	5	3.061702233	1.957636412	1.25198963			
0	0	0.450594909					
ENSG00000146676	6225.610777	5612.689158	5630.16328				
7742.284357	7521.066791	6972.517481	5822.821072				
7411.95621	-0.348249336	0.003616086	0.028761239		PURB		
7	44876293	44885361	-	9069			
protein_coding	purine rich element binding protein B		[Source:HGNC				
Symbol;Acc:HGNC:9702]	Others	5381	6055	5758	7707	8230	

	7106	32.44877476	29.43667165	29.41133341		
41.08915155		39.54567848	36.57731624			
ENSG00000149089	677.979542		632.1806781	572.0120735		
378.7259897	466.9823974		431.7348286	627.3907645		
425.8144052	0.558348215		0.003623779	0.02878281		APIP
11	34853094		34916499	-	5337	
protein_coding	APAF1 interacting protein [Source:HGNC					
Symbol;Acc:HGNC:17581]	-	586	682	585	377	511
440	6.004752698		5.634055617	5.077630793		
3.415429804	4.172365014		3.848588781			
ENSG00000148291	391.0530464		515.3848343	521.1665558		
648.9575314	641.5296339		897.8122003	475.8681455		
729.4331219	-0.614984588		0.003624157	0.02878281		SURF2
9	133356552		133361169	+	1008	
protein_coding	surfeit 2 [Source:HGNC Symbol;Acc:HGNC:11475]					-
338	556	533	646	702	915	18.33795408
24.31914026	24.49453124		30.98654837	30.34835655		
42.37469622						
ENSG00000231605	18.51138681		29.66243651	2.933395248		
24.10987733	126.1126631		80.4596726	17.03573952		
76.894071	-2.173757292		0.003624446	0.02878281		
LINC01363	1	167175917	167195792	-		1375
	antisense	long intergenic non-protein coding RNA			1363	
[Source:HGNC Symbol;Acc:HGNC:50598]	-	16	32	3		
24	138	82	0.636373369	1.026080037		
0.101069708	0.84393648		4.373558964	2.783922814		
ENSG00000174123	2.313923351		0.926951141	0	36.16481599	
4.569299387	16.68066383		1.080291497	19.13825974		
-4.193624326	0.003640091		1	TLR10	4	
38772239	38782990		4217	protein_coding	toll	
like receptor 10	[Source:HGNC Symbol;Acc:HGNC:15634]					2
1	0	36	5	17	0.025937082	
0.010455152	0	0.412762388	0.051668399	0.188187753		
ENSG00000107175	745.0833192		835.1829779	866.3293967		
1010.605691	1321.441383		1111.717184	815.5318979		
1147.921419	-0.49300761		0.003645902	0.028938163		CREB3
9	35732335		35737004	+	1903	
protein_coding	cAMP responsive element binding protein 3 [Source:HGNC					
Symbol;Acc:HGNC:2347]	TF_bZIP	644	901	886	1006	1446
1133	18.50724575		20.87468644	21.56737995		
25.55997407	33.11220502		27.79311071			
ENSG00000169188	1401.080589		1625.872301	1450.075051		
1945.868016	1974.851195		1989.905073	1492.342647		
1970.208095	-0.400415027		0.003648146	0.028940947		APEX2
X	55000357		55009057	+	3245	
protein_coding	apurinic/aprimidinic endodeoxyribonuclease 2					
[Source:HGNC Symbol;Acc:HGNC:17889]	-		1211	1754		1483
1937	2161	2028	20.40911415	23.83136102		
21.17039229	28.86131641		29.02008389	29.17422213		
ENSG00000165424	1273.814805		1101.217955	1713.102825		

909.1432909	960.4667312	957.666347	1362.711862	
942.4254564	0.532012791	0.003652788	0.028957464	
ZCCHC24 10	79382325	79445627	-	5051
protein_coding	zinc finger CCHC-type containing 24			[Source:HGNC
Symbol;Acc:HGNC:26911]	-	1101	1188	1752 905 1051
976	11.92077973	10.36986327	16.06790255	
8.663082039	9.06742444	9.020248144		
ENSG00000227706	20.82531016	31.51633879	44.97872714	
10.04578222	0	0.981215519	32.44012537	3.675665913
3.157777503	0.003654016	0.028957464	AL713998.1	
6	67887646	67889339	-	1605
lincRNA novel transcript		-	18	34 46 10
0	1	0.613327138	0.933980563	1.327655047
0.301249392	0	0.029085129		
ENSG0000020577	323.9492692	300.3321696	430.2313031	
146.6684204	231.206549	229.6044316	351.5042473	
202.4931337	0.795145359	0.003658664	0.028979272	SAMD4A
14	54567097	54793315	+	12170
protein_coding	sterile alpha motif domain containing 4A			[Source:HGNC
Symbol;Acc:HGNC:23023]	-	280	324	440 146 253
234	1.258236171	1.173784553	1.674806177	
0.580047413	0.905917274	0.897576172		
ENSG00000184164	411.8783566	377.2691143	611.1240101	
288.3139497	260.4500651	309.0828886	466.7571603	
285.9489678	0.707428198	0.003665358	0.029017258	CRELD2
22	49918167	49927540	+	5165
protein_coding	cysteine rich with EGF like domains 2			[Source:HGNC
Symbol;Acc:HGNC:28150]	-	356	407	625 287 285
315	3.769418736	3.474225802	5.60547148	
2.686660482	2.404546233	2.846992111		
ENSG00000225826	4.627846703	9.269511408	16.62257307	0
0	0	10.1733104	0	5.841849403
0.003673554	1	LINC00626	1	168786939
168792886	+	955	lincRNA long intergenic non-protein	
coding RNA 626	[Source:HGNC	Symbol;Acc:HGNC:44257]	-	4
10	17	0	0	0.229061095
0.461668865	0.824608877	0	0	0
ENSG00000163481	546.0859109	762.8807889	660.9917293	
909.1432909	996.1072664	927.2486659	656.6528097	
944.1664077	-0.522825578	0.003674909	0.029077813	RNF25
2	218663864	218672411	-	2323
protein_coding	ring finger protein 25			[Source:HGNC
Symbol;Acc:HGNC:14662]	-	472	823	676 905 1090
945	11.11187895	15.62012782	13.48031194	
18.83651631	20.44729609	18.99016047		
ENSG00000099625	164.288558	291.0626582	224.8936357	
503.2936892	282.3827021	430.753613	226.748284	
405.4766681	-0.835787674	0.003703128	0.029285936	CBARP
19	1228287	1238027	-	4591
subunit beta associated regulatory protein	[Source:HGNC		protein_coding	CACN

Symbol;Acc:HGNC:28617]	-	142	314	230	501	309
439	1.691514653	3.015479034	2.320721357			
5.27632635	2.932984612	4.463784947				
ENSG0000092203	1423.062861	1546.154503	1394.340541			
1843.401037	2093.652979	1851.553685	1454.519302			
1929.535901	-0.407667691	0.003705135	0.029286659			TOX4
14	21476597	21499175	+ 7091			
protein_coding	TOX high mobility group box family member 4					
[Source:HGNC Symbol;Acc:HGNC:20161]	HMG	1230	1668			1426
1835	2291 1887	9.486201355	10.37104501			
9.315678587	12.51208827	14.0791424	12.42254134			
ENSG00000185024	684.921312	840.7446847	928.9084954			
1224.580853	1157.860465	1080.318287	818.1914974			
1154.253201	-0.495583509	0.003718785	0.029379362			BRF1
14	105209286	105315589	- 13167			
protein_coding	"BRF1, RNA polymerase III transcription initiation					
factor subunit	[Source:HGNC Symbol;Acc:HGNC:11551]"	-				592
907	950 1219	1267 1101	2.458836118			
3.037067256	3.342252259	4.476288677	4.193227034			
3.903431111						
ENSG00000132185	8.09873173	13.90426711	7.822387329			0
0	0	9.941795391	0	5.807743971		
0.003735337	1	FCRLA 1	161706972	161714352		
+	3275	protein_coding	Fc receptor like A			
[Source:HGNC Symbol;Acc:HGNC:18504]	-	7	15			8
0	0	0	0.116891101	0.201936076		
0.113156925	0	0	0			
ENSG00000101639	864.2503718	866.6993167	924.0195033			
719.278007	612.2861179	456.2652166	884.9897306			
595.9431138	0.570632337	0.003739684	0.02952266			CEP192
18	12991362	13125052	+ 9901			
protein_coding	centrosomal protein 192 [Source:HGNC					
Symbol;Acc:HGNC:25515]	-	747	935	945	716	670
465	4.126066793	4.163576114	4.421353138			
3.49651325	2.948861259	2.192400681				
ENSG00000170325	534.5162942	458.8408147	503.5661843			
401.8312888	236.6897083	288.4773627	498.9744311			
308.9994533	0.691814963	0.003740786	0.02952266			PRDM10
11	129899706	130002835	- 6626			
protein_coding	PR/SET domain 10 [Source:HGNC Symbol;Acc:HGNC:13995]					
zf-C2H2	462 495	515 400	259 294			
3.813162003	3.293727951	3.600462179	2.918836553			
1.703361905	2.071294895					
ENSG00000146005	6.941770054	12.05036483	10.75578258			0
0	0	9.915972488	0	5.804271849		
0.003743387	1	PSD2 5	139795821	139844466		
+	4513	protein_coding	pleckstrin and Sec7 domain			
containing 2	[Source:HGNC Symbol;Acc:HGNC:19092]	-				6
13	11	0	0	0	0.072707737	
0.127002414	0.112909324	0	0	0		

ENSG00000171792	693.0200438	532.996906	772.4607488	
405.8496017	519.0724104	359.1248801	666.1592328	
428.0156307	0.637342122	0.003754677	0.029617003	RHN01
12	2876258	2889523	+	2643
protein_coding HUS1-RAD1 interacting nuclear orphan 1 [Source:HGNC				
Symbol;Acc:HGNC:28206]	-	599	575	790
366	12.39436758	9.591899937	13.84625686	404
7.390697354	9.365042882	6.464425848		568
ENSG00000178802	608.5618414	817.5709062	654.1471404	
933.2531683	1071.957636	969.4409332	693.4266294	
991.5505792	-0.515158359	0.003757985	0.029617562	MPI
15	74890005	74902219	+	9090
protein_coding mannose phosphate isomerase [Source:HGNC				
Symbol;Acc:HGNC:7216]	-	526	882	669
988	3.164583604	4.277979114	3.409295854	929
4.941434548	5.623319074	5.073867213		1173
ENSG00000166794	2216.738571	1885.41862	2352.582989	
1550.064197	1444.812466	1765.20672	2151.58006	
1586.694461	0.439313266	0.003758623	0.029617562	PPIB
15	64155812	64163205	-	1911
protein_coding peptidylprolyl isomerase B [Source:HGNC				
Symbol;Acc:HGNC:9255]	-	1916	2034	2406
1799	54.8314247	46.92715435	58.3226692	1543
39.03969855	36.05203472	43.9457127		1581
ENSG00000166188	220.9796801	307.7477788	315.8288884	
461.1014039	444.1359004	426.828751	281.5187824	
444.0220184	-0.655425146	0.00376457	0.02964914	ZNF319
16	57994668	58000453	-	4274
protein_coding zinc finger protein 319 [Source:HGNC				
Symbol;Acc:HGNC:13644]	zf-C2H2	191	332	323
435	2.443957009	3.424818209	3.500825472	459
5.192534422	4.955190429	4.751172242		486
ENSG00000136450	3579.639425	2667.765383	3010.641323	
2445.143392	2343.136726	2039.947065	3086.015377	
2276.075728	0.438857715	0.003772456	0.029695953	SRSF1
17	58003360	58007346	-	3340
protein_coding serine and arginine rich splicing factor 1				
[Source:HGNC Symbol;Acc:HGNC:10780]	-		3094	2878
2434	2564	2079	50.66039309	37.99078617
42.70371695	35.235085	33.45262112	29.05721979	
ENSG00000123146	1767.83744	1941.035689	2894.283312	
1270.791451	1264.78207	1838.797883	2201.052147	
1458.123802	0.594355046	0.003774437	0.029696254	ADGRE5
19	14380501	14408725	+	5382
protein_coding adhesion G protein-coupled receptor E5 [Source:HGNC				
Symbol;Acc:HGNC:1711]	-	1528	2094	2960
1874	15.52652881	17.15406068	25.47712826	1265
11.36444022	11.20600971	16.2544369		1384
ENSG00000153944	1487.852715	1210.59819	1713.102825	
1113.07267	1026.264642	1009.67077	1470.51791	

1049.669361	0.486274332	0.003782587	0.029745067	MSI2
17	57255851	57684685	+ 21479	
protein_coding	musashi RNA binding protein 2	[Source:HGNC		
Symbol;Acc:HGNC:18585]	-	1286 1306	1752 1108	1123
1029	3.274323788	2.680791741	3.778526737	
2.494174983	2.278370223	2.236389026		
ENSG00000116096	422.2910116	590.4678767	555.3895004	
644.9392185	840.7510872	881.1315365	522.7161296	
788.9406141	-0.592838871	0.003792465	0.029807408	SPR
2	72887360	72892158	+ 1480	
protein_coding	sepiapterin reductase	[Source:HGNC		
Symbol;Acc:HGNC:11257]	-	365 637	568 642	920
898	13.48732621	18.976306	17.77825275	
20.97367476	27.08848457	28.32439597		
ENSG00000270083	18.51138681	8.342560268	3.911193665	0
0	0	10.25504691	0	5.847550684
0.003797912	1	AL021878.2	22	42089630
42090028	-	399	sense_intronic	"novel transcript,
sense intronic to	NDUFA6"	-	16	9 4 0
0	0	2.193015997	0.994497216	0.464397156
0	0	0		
ENSG00000143294	1563.055224	2125.498966	1892.039935	
2512.450133	2729.699454	2349.029954	1860.198042	
2530.39318	-0.44342313	0.003808428	0.029917492	PRCC
1	156750610	156800817	+ 4108	
protein_coding	proline rich mitotic checkpoint control factor	[Source:HGNC		
Symbol;Acc:HGNC:9343]	-	1351 2293		1935
2501	2987 2394	17.98538036	24.6097713	
21.81991177	29.43638492	31.68570579	27.20443728	
ENSG00000160209	2552.257457	3322.192889	2813.126043	
4028.35867	3813.537268	3661.896319	2895.858796	
3834.597419	-0.404733231	0.003810549	0.029918782	PDXK
21	43719094	43762307	+ 11912	
protein_coding	pyridoxal kinase	[Source:HGNC		
Symbol;Acc:HGNC:8819]	-	2206 3584	2877 4010	4173 3732
10.12780979	13.26530605	11.18813332	16.27649557	
15.26589594	14.62523948			
ENSG00000103740	10.41265508	8.342560268	10.75578258	0
0	0	9.836999309	0	5.790667618
0.003820374	1	ACSBG1	15	78167468 78245688
-	8230	protein_coding	acyl-CoA synthetase	bubblegum
family member 1	[Source:HGNC	Symbol;Acc:HGNC:29567]	-	9
9	11	0	0	0.059804985
0.048214385	0.061914919	0	0	
ENSG00000100578	842.2680999	685.0168931	833.0842506	
514.3440497	636.9603346	383.6552681	786.7897479	
511.6532174	0.619992442	0.003823463	0.030001686	
KIAA0586	14	58427385	58551289	+ 10184
protein_coding	KIAA0586	[Source:HGNC		
Symbol;Acc:HGNC:19960]	-	728 739	852 512	697 391

3.909378331	3.199337126	3.87546358	2.430819921	
2.98244872	1.792273991			
ENSG00000169084	208.2531016	278.0853423	329.5180662	
131.5997471	158.0977588	171.7127159	271.95217	
153.8034073	0.82331551	0.003825033	0.030001686	DHR SX
X	2219516	2502805	-	3620
dehydrogenase/reductase X-linked	[Source:HGNC Symbol;Acc:HGNC:18399]			
-	180	300	337	131
2.719309546	3.653815739	4.312447154	1.749701409	
2.082553324	2.256708756			
ENSG00000138413	1756.267824	1531.323285	1568.38866	
1157.274112	1251.988032	1230.444261	1618.659923	
1213.235468	0.415494587	0.003836884	0.030079206	IDH1
2	208236227	208266074	-	4721
protein_coding	"isocitrate dehydrogenase (NADP(+)) 1, cytosolic			
[Source:HGNC Symbol;Acc:HGNC:5382]"	-	1518	1652	1604
1152	1370	1254	17.5845996	15.42801316
15.73884359	11.79830707	12.64576668	12.39965415	
ENSG00000100503	1800.232367	1686.124125	2064.132457	
1417.459871	1147.808006	1473.78571	1850.162983	
1346.351196	0.458820673	0.003841999	0.030092405	NIN
14	50719763	50831121	-	13683
protein_coding	ninein [Source:HGNC Symbol;Acc:HGNC:14906]			
1556	1819	2111	1411	1256
5.861183658	7.146762701	4.985938339	4.000063726	
5.124301111				
ENSG00000257242	21.98227184	21.31987624	27.37835565	
115.5264955	77.67808958	33.36132766	23.56016791	
75.52197092	-1.679714008	0.003842505	0.030092405	
LINC01619	12	91984976	92142914	-
processed_transcript	long intergenic non-protein coding RNA			
1619	[Source:HGNC Symbol;Acc:HGNC:27409]			
28	115	85	34	0.285304336
0.356139829	1.526719017	1.017038942	0.278433735	0.435797778
ENSG00000135924	480.1390954	618.2764109	565.1674845	
852.8869105	726.5186025	820.2961743	554.5276636	
799.9005624	-0.527304182	0.003855815	0.030166687	DNAJB2
2	219279267	219286900	+	5886
protein_coding	DnaJ heat shock protein family (Hsp40) member B2			
[Source:HGNC Symbol;Acc:HGNC:5228]	-	415	667	578
849	795	836	3.855871495	4.996196768
4.548938197	6.974107686	5.885799566	6.630282843	
ENSG00000188191	341.3036943	486.6493489	299.2063153	
610.783559	497.1397733	701.5690964	375.7197862	
603.1641429	-0.681659463	0.00385651	0.030166687	
PRKAR1B	7	549197	727650	-
4491	protein_coding			
protein kinase cAMP-dependent type I regulatory subunit beta	[Source:HGNC Symbol;Acc:HGNC:9390]			
608	544	715	3.592308895	5.154068738
3.156318546	6.545785062	5.278547602	7.432056842	306

ENSG00000160226	170.0733663	272.5236354	262.0499755	
360.6435817	399.3567664	405.2420095	234.8823258	
388.4141192	-0.723219645	0.00385791	0.030166687	
CFAP410 21	44328944	44339402	- 6063	
protein_coding	cilia and flagella associated protein 410 [Source:HGNC			
Symbol;Acc:HGNC:1260]	-	147 294	268 359	437
413	1.325941853	2.137931175	2.047621503	
2.862912646	3.140888117	3.179863804		
ENSG00000266903	1.156961676	29.66243651	25.42275882	0
0	1.962431039	18.74738567	0.65414368	
4.857201396	0.003867556	1 AC243964.2	19	
44632199	44718759	- 1418	antisense	"novel
transcript, antisense to CEACAM16, CEACAM19, PVR & IGSF23"				-
1	32 26	0 0	2	0.038567233
0.994964775	0.849375193	0	0	0.065841513
ENSG00000184481	157.3467879	251.2037592	219.0268452	
387.7671937	360.0607917	308.1016731	209.1924641	
351.9765528	-0.748104114	0.003880498	0.030327797	FOX04
X	71096197	71103535	+ 3447	
protein_coding	forkhead box 04 [Source:HGNC Symbol;Acc:HGNC:7139]			
Fork	136 271	224 386	394 314	
2.15770634	3.466266624	3.010295925	5.414361361	
4.980965529	4.25240285			
ENSG00000102032	10.41265508	12.05036483	5.866790497	
21.09614266	66.71177105	41.21105182	9.443270136	
43.00632184	-2.189053659	0.003909465	0.030538576	RENBP
X	153935263	153944691	- 2057	
protein_coding	renin binding protein [Source:HGNC			
Symbol;Acc:HGNC:9959]	-	9 13	6 21	73
42	0.239278088	0.278639716	0.135119931	
0.49361258	1.546490178	0.953149522		
ENSG00000197530	1033.166776	1293.096841	1282.871522	
1733.902011	1542.595473	1637.648702	1203.045047	
1638.048729	-0.444523942	0.003917045	0.030582157	MIB2
1	1615415 1630610	+ 8767	protein_coding	
mindbomb E3 ubiquitin protein ligase 2 [Source:HGNC				
Symbol;Acc:HGNC:30577]	-	893 1395	1312 1726	1688
1669	5.570512654	7.015476255	6.932426668	
9.518992865	8.390349147	8.88692195		
ENSG00000138594	2775.55106	1967.917272	2010.353544	
1470.702517	1812.184137	1517.940409	2251.273959	
1600.275688	0.491774588	0.003927831	0.030650719	TMOD3
15	51829628	51947295	+ 10632	
protein_coding	tropomodulin 3 [Source:HGNC Symbol;Acc:HGNC:11873]			
-	2399 2123	2056 1464	1983 1547	
12.33985319	8.803776004	8.957990513	6.657747578	
8.127675277	6.792370726			
ENSG00000129355	220.9796801	303.1130231	379.3857855	
122.5585431	154.4423193	213.9049832	301.1594962	
163.6352819	0.88111068	0.003933285	0.030677619	CDKN2D

19	10566462	10569059	-	1503	
protein_coding	cyclin dependent kinase inhibitor 2D [Source:HGNC				
Symbol;Acc:HGNC:1790]	-	191	327	388	122 169
218	6.949748675	9.592299495	11.9584585		
3.924660249	4.899889902	6.770855554			
ENSG0000070047	1441.574248	2061.539337	2146.267523		
2873.093715	2226.162661	2968.176946	1883.127036		
2689.144441	-0.513393898	0.003956395	0.030842124		PHRF1
11	576486	612222 +	5769	protein_coding	PHD
and ring finger	domains 1 [Source:HGNC Symbol;Acc:HGNC:24351]				
1246	2224	2195	2860	2436	3025 11.81169478
16.99684062	17.6252969	23.96992696	18.40074228		
24.47771511					
ENSG00000120656	830.6984832	928.8050431	800.8169028		
1324.034097	1135.013968	1084.243149	853.440143		
1181.097071	-0.468376453	0.00396455	0.030889947		TAF12
1	28589323	28643085	-	2337	
protein_coding	TATA-box binding protein associated factor 12				
[Source:HGNC	Symbol;Acc:HGNC:11545]				
1318	1242	1105	16.80197927	18.90353245	819
16.23407863	27.26829064	23.15908951	22.07240221		
ENSG00000169972	491.7087122	723.0218899	578.8566624		
959.372202	901.0658391	784.9724156	597.8624215		
881.8034856	-0.559393708	0.003967982	0.030900937		PUSL1
1	1308567	1311677 +	2489	protein_coding	
pseudouridylate	synthase like 1 [Source:HGNC Symbol;Acc:HGNC:26914]				
-	425	780	592	955	986 800
9.338104855	13.81667888	11.01791115	18.55152823		
17.26277524	15.00414064				
ENSG00000172995	9.255693406	21.31987624	7.822387329		0
0	0.981215519	12.79931899	0.32707184		
5.211345548	0.00399387	1	ARPP21	3	35638945
35794496	+	10092	protein_coding	cAMP regulated	
phosphoprotein 21	[Source:HGNC Symbol;Acc:HGNC:16968]				
23	8	0	0	1	0.043351832
0.10048114	0.036721059	0	0	0.004625608	
ENSG00000075399	409.5644332	724.8757921	701.0814644		
854.8960669	866.3391638	1186.289563	611.8405632		
969.1749313	-0.662147249	0.00399468	0.031093014		VPS9D1
16	89707134	89720986	-	3428	
protein_coding	VPS9 domain containing 1 [Source:HGNC				
Symbol;Acc:HGNC:13526]	-	354	782	717	851 948
1209	5.647511989	10.05772826	9.689041102		
12.00300435	12.05108423	16.46385466			
ENSG00000102393	870.0351801	810.1552971	874.151784		
621.8339194	443.2220405	666.2453377	851.4474204		
577.1004326	0.56148878	0.003999309	0.031100911		GLA
X	101397803	101408012	-	2275	
protein_coding	galactosidase alpha [Source:HGNC Symbol;Acc:HGNC:4296]				
-	752	874	894	619	485 679

18.07719956	16.93807258	18.20365406	13.15559407	
9.290068908	13.93267187			
ENSG00000145860	2026.996856	1692.612783	2077.821634	
1464.675048	1562.70039	1135.266356	1932.477091	
1387.547265	0.477598832	0.003999764	0.031100911	RNF145
5	159157409	159210053	- 4614	
protein_coding	ring finger protein 145 [Source:HGNC			
Symbol;Acc:HGNC:20853]	-	1752 1826	2125 1458	1710
1157	20.76592229	17.44846156	21.33456538	
15.27851519	16.15017074	11.705819		
ENSG00000105732	768.2225527	885.2383395	794.9501123	
1199.466397	1230.055395	983.1779505	816.1370015	
1137.566581	-0.478725405	0.004003536	0.031114414	ZNF574
19	42068477	42081549	+ 4666	
protein_coding	zinc finger protein 574 [Source:HGNC			
Symbol;Acc:HGNC:26166]	zf-C2H2	664 955	813 1194	1346
1002	7.782480795	9.023865116	8.071388783	
12.37259533	12.5706844	10.02464548		
ENSG00000159399	1043.579431	756.3921309	559.300694	
593.7057292	443.2220405	427.8099665	786.4240855	
488.2459121	0.687060504	0.004018409	0.031214137	HK2
2	74833981	74893359	+ 6064	
protein_coding	hexokinase 2 [Source:HGNC Symbol;Acc:HGNC:4923]	-		
902	816 572	591 485	436 8.134709674	
5.932871255	4.369575945	4.712262821	3.485307844	
3.356397064				
ENSG00000167130	396.8378548	497.7727626	529.9667416	
235.071304	302.4876194	354.2188025	474.8591197	
297.259242	0.676353043	0.004023319	0.031225134	DOLPP1
9	129081100	129090438	+ 2249	
protein_coding	dolichyldiphosphatase 1 [Source:HGNC			
Symbol;Acc:HGNC:29565]	-	343 537	542 234	331
361	8.340640016	10.52734336	11.16380615	
5.030690722	6.413530082	7.493138885		
ENSG00000135045	765.9086293	875.041877	1058.955685	
653.9804225	643.3573537	576.9547254	899.9687303	
624.7641672	0.527093778	0.00402391	0.031225134	
C9orf40 9	74946581	74952886	- 2327	
protein_coding	chromosome 9 open reading frame 40 [Source:HGNC			
Symbol;Acc:HGNC:23433]	-	662 944	1083 651	704
588	15.55809141	17.88584937	21.55929371	
13.52651199	13.18362598	11.79578854		
ENSG00000131652	603.9339947	629.3998246	551.4783067	
759.4611358	1113.995191	774.1790449	594.9373754	
882.5451238	-0.569332956	0.004028974	0.031248566	THOC6
16	3024027 3027755	+ 1860	protein_coding	THO
complex 6 [Source:HGNC Symbol;Acc:HGNC:28369]	-	522	679	
564	756 1219	789 15.348017	16.09499285	
14.04651591	19.65214988	28.55941841	19.80204736	
ENSG00000004478	3098.343368	3620.671156	3138.732916	

4543.707298	3740.428478	4811.880907	3285.915813	
4365.338895	-0.409564465	0.004036168	0.031288492	FKBP4
12	2794953	2805423 + 5180	protein_coding	FK506
binding protein 4 [Source:HGNC Symbol;Acc:HGNC:3720]	-			2678
3906	3210 4523	4093 4904	28.27323648	
33.24577315	28.70633366	42.21803781	34.43266067	
44.19434866				
ENSG00000119711	291.5543423	309.601681	381.3413823	
196.8973315	208.3600521	201.1491815	327.4991352	
202.1355217	0.69661101	0.004061467	0.031463724	
ALDH6A1 14	74056850	74084493	- 6680	
protein_coding aldehyde dehydrogenase 6 family member A1 [Source:HGNC Symbol;Acc:HGNC:7179]	-	252 334	390 196	228
205	2.063092931	2.204468829	2.704522509	
1.418668172	1.487363029	1.432595011		
ENSG00000206560	4626.689741	3815.330896	4006.040111	
3427.620894	3187.543252	2839.637713	4149.353583	
3151.60062	0.396607082	0.004062889	0.031463724	
ANKRD28 3	15667236	15859771	- 11276	
protein_coding ankyrin repeat domain 28 [Source:HGNC Symbol;Acc:HGNC:29024]	-	3999 4116	4097 3412	3488
2894	19.39505653	16.09363906	16.83113303	
14.63036536	13.47969317	11.98090144		
ENSG00000204946	215.1948717	298.4782674	351.0296314	
533.4310359	384.7350084	497.4762684	288.2342568	
471.8807709	-0.709064994	0.004065496	0.03146797	ZNF783
7	149262171	149297302	+ 6726	
protein_coding zinc finger family member 783 [Source:HGNC Symbol;Acc:HGNC:27222]	zf-C2H2	186 322	359 531	421
507	1.512344718	2.110731379	2.472521299	
3.817146907	2.727619776	3.518820652		
ENSG00000116337	2900.502921	3481.628485	3458.472998	
4427.176224	3845.522364	4726.515157	3280.201468	
4333.071249	-0.401294009	0.004069145	0.03148027	AMPD2
1	109616104	109632051	+ 6823	
protein_coding adenosine monophosphate deaminase 2 [Source:HGNC Symbol;Acc:HGNC:469]	-	2507 3756	3537 4407	4208
4817	20.09433672	24.2708044	24.0138694	
31.22977791	26.87564882	32.9569726		
ENSG00000175221	1867.336145	2657.568921	2395.60612	
3585.339674	2991.063379	2950.515067	2306.837062	
3175.639373	-0.460605995	0.004077509	0.031529025	MED16
19	867630 893218	- 4222	protein_coding	
mediator complex subunit 16 [Source:HGNC Symbol;Acc:HGNC:17556]	-			
1614	2867 2450	3569 3273	3007 20.90643652	
29.9394227	26.88130269	40.87234311	33.78207907	
33.2476715				
ENSG00000081059	78.67339395	77.86389583	126.1359957	
44.20144177	41.12369448	24.53038799	94.22442849	
36.61850808	1.363928032	0.004110711	0.031769689	TCF7

5	134114711	134151865	+	10063	
protein_coding	transcription factor 7 [Source:HGNC				
Symbol;Acc:HGNC:11639]	HMG	68	84	129	44 45
25	0.369552507	0.368032161		0.593833499	
0.211410435	0.194869396	0.115973449			
ENSG00000183751	1203.240143	1545.227552		1324.916854	
2124.68294	1642.2062	1853.516116		1357.794849	
1873.468419	-0.46377763	0.004113057		0.031771755	TBL3
16	1972037	1982933	+	7139	protein_coding
transducin beta	like 3 [Source:HGNC Symbol;Acc:HGNC:11587]				
1040	1667	1355	2115	1797	1889 7.966923923
10.29513808	8.792337877	14.32432633		10.96905699	
12.35209468					
ENSG00000144647	629.3871516	1050.235643		873.1739856	
1265.76856	1211.778197	1263.805589		850.9322599	
1247.117449	-0.550213932	0.00412101		0.031817114	
POMGNT2	3	43079232		43106076	- 2668
protein_coding	"protein O-linked mannose N-				
acetylglucosaminyltransferase 2 (beta 1,4-)	[Source:HGNC				
Symbol;Acc:HGNC:25902]"	-	544	1133	893	1260 1326
1288	11.15084521	18.72311232		15.50486858	
22.83420714	21.65789763	22.53596054			
ENSG00000115561	1404.551474	1169.81234		1294.605103	
1005.5828	981.4855083	804.596726		1289.656306	
930.5550115	0.47037502	0.004128952		0.031859081	CHMP3
2	86503431	86563479		- 7018	
protein_coding	charged multivesicular body protein 3 [Source:HGNC				
Symbol;Acc:HGNC:29865]	-	1214	1262	1324	1001 1074
820	9.460193848	7.928297698		8.739308635	
6.896391852	6.668827982	5.454394228			
ENSG00000175198	542.6150259	450.4982545		491.8326033	
232.0575693	385.6488683	310.0641042		494.9819612	
309.2568472	0.677178062	0.004130614		0.031859081	PCCA
13	100089015	100530437		+ 7288	
protein_coding	propionyl-CoA carboxylase subunit alpha [Source:HGNC				
Symbol;Acc:HGNC:8653]	-	469	486	503	231 422
316	3.519323516	2.940098383		3.197143113	
1.532515347	2.52326396	2.024066395			
ENSG00000125107	6069.420951	5670.160129		6380.134665	
5069.101708	4683.531872	4431.169286		6039.905248	
4727.934289	0.35330823	0.004137656		0.031897299	CNOT1
16	58519951	58629886		- 10852	
protein_coding	CCR4-NOT transcription complex subunit 1 [Source:HGNC				
Symbol;Acc:HGNC:7877]	-	5246	6117	6525	5046 5125
4516	26.43706348	24.85207487		27.85307745	
22.4821933	20.57987262	19.42630415			
ENSG00000279039	4.627846703	4.634755704		21.51156516	0
0	0	10.25805585	0	5.853184765	
0.004139611	1	AC011447.6	19	20207192	
20209789	-	2598	TEC	TEC	- 4 5

	22	0	0	0	0.084200672	0.084852534	
	0.392270808	0	0	0	0		
ENSG00000109606	5191.287039	4916.548851	5122.685902				
3916.850488	3946.046951	4196.658777	5076.840597				
4019.852072	0.336742382	0.004180477	0.032211166				DHX15
4	24517441	24584550	-	8162			
protein_coding	DEAH-box helicase 15 [Source:HGNC						
Symbol;Acc:HGNC:2738]	-	4487	5304	5239	3899		4318
4277	30.06451428	28.65107245	29.73406345				
23.09712162	23.05391276	24.46181603					
ENSG00000004799	133.0505927	108.4532835	168.1813276				
51.23348932	86.81668835	43.17348286	136.5617346				
60.40788684	1.174467914	0.004193929	0.032298535				PKD4
7	95583499	95596491	-	4519			
protein_coding	pyruvate dehydrogenase kinase 4 [Source:HGNC						
Symbol;Acc:HGNC:8812]	-	115	117	172	51		95
44	1.391714691	1.141504107	1.763147158				
0.54566871	0.916093627	0.45452353					
ENSG00000153531	18.51138681	41.71280134	39.11193665				
99.45324398	66.71177105	102.046414	33.1120416				
89.40380969	-1.425369039	0.004199954	0.032309202				
ADPRHL1 13	113399610	113453524	-	10924			
protein_coding	ADP-ribosylhydrolase like 1 [Source:HGNC						
Symbol;Acc:HGNC:21303]	-	16	45	40	99		73
104	0.08010009	0.181620464	0.169621444				
0.438182188	0.29120563	0.444424184					
ENSG00000127220	596.9922247	754.5382286	831.1286537				
1045.765929	955.8974318	1113.679615	727.5530357				
1038.447659	-0.512232716	0.004201494	0.032309202				ABHD8
19	17292131	17310236	-	2210			
protein_coding	abhydrolase domain containing 8 [Source:HGNC						
Symbol;Acc:HGNC:23759]	-	516	814	850	1041		1046
1135	12.76886045	16.23925454	17.8167755				
22.77506747	20.6251924	23.9745036					
ENSG00000196449	1058.619933	1322.759278	964.1092383				
1292.892172	2015.97489	1582.700633	1115.162817				
1630.522565	-0.548012314	0.004201655	0.032309202				YRDC
1	37802944	37808185	-	1826			
protein_coding	yrdC N6-threonylcarbamoyltransferase domain containing						
[Source:HGNC Symbol;Acc:HGNC:28905]	-		915	1427			986
1287	2206	1613	27.40406782	34.45538904			
25.01373805	34.07838383	52.64575189	41.23629426				
ENSG00000251191	17.35442514	5.561706845	6.844588913				0
0	0	9.920240298	0	5.799502836			
0.004204752	1	LINC00589	8	29673922			
29748109	-	2074	lincRNA long intergenic non-protein				
coding RNA 589	[Source:HGNC Symbol;Acc:HGNC:32299]					-	15
6	7	0	0	0	0.395527988		
0.127548823	0.156347789	0	0	0			
ENSG00000135597	1151.176867	1237.479773	1019.843748				

1694.723461	1454.864925	1475.748141	1136.166796	
1541.778842	-0.44025411	0.004208942	0.032348971	REPS1
6	138903493	138988261	- 9602	
protein_coding	RALBP1 associated	Eps domain	containing 1 [Source:HGNC	
Symbol;Acc:HGNC:15578]	-	995 1335	1043 1687	1592
1504	5.66703757	6.129901868	5.031819602	
8.494828148	7.225035071	7.311932448		
ENSG00000164610	549.556796	619.2033621	560.2784925	
782.566435	826.1293292	805.5779415	576.3462168	
804.7579019	-0.481203788	0.004212562	0.032360524	RP9
7	33094797	33109401	- 1898	
protein_coding	"RP9, pre-mRNA	splicing factor	[Source:HGNC	
Symbol;Acc:HGNC:10288]"	-	475 668	573 779	904
821	13.68649094	15.51723053	13.98494844	
19.84460533	20.75538626	20.19263452		
ENSG00000132661	495.1795972	668.3317726	500.6327891	
760.4657141	821.5600298	836.9768381	554.7147196	
806.334194	-0.53870201	0.004221209	0.032410656	NXT1
20	23350736	23354777	+ 1123	
protein_coding	nuclear transport factor 2 like	export factor 1		
[Source:HGNC Symbol;Acc:HGNC:15913]	-	428 721		512
757	899 853	20.84292787	28.30671462	
21.11993905	32.5924749	34.88498441	35.45808777	
ENSG00000152465	599.306148	558.9515379	601.3460259	
476.1700772	365.543951	308.1016731	586.5345706	
383.2719004	0.614017875	0.004232166	0.032478478	NMT2
10	15102584	15168693	- 4700	
protein_coding	N-myristoyltransferase 2 [Source:HGNC			
Symbol;Acc:HGNC:7858]	-	518 603	615 474	400
314	6.027352824	5.656573208	6.061494475	
4.876202134	3.70869169	3.118730345		
ENSG00000198804	122005.0796	109268.0735	137942.9116	
166903.6395	153453.5229	151958.8851	123072.0216	
157438.6825	-0.355287956	0.004239386	0.03250504	MT-C01
MT	5904 7445	+ 1542	protein_coding	
mitochondrially	encoded cytochrome c oxidase I	[Source:HGNC		
Symbol;Acc:HGNC:7419]	-	105453 117879	141075 166143	167918
154868	3739.979988	3370.435552	4238.07015	
5209.534169	4745.38526	4688.385908		
ENSG00000105619	216.3518334	284.5740002	254.2275882	
329.5016568	384.7350084	534.7624581	251.7178073	
416.3330411	-0.724641774	0.00423988	0.03250504	TFPT
19	54107013	54115675	- 1240	
protein_coding	TCF3 fusion partner [Source:HGNC			
Symbol;Acc:HGNC:13630]	-	187 307	260 328	421
545	8.247353962	10.9156763	9.713016324	
12.78949437	14.79513759	20.51733044		
ENSG00000143393	2008.485469	2220.974933	2149.200919	
2824.87396	2938.973366	2539.385764	2126.22044	
2767.744363	-0.380255518	0.004251557	0.032568263	PI4KB

1	151291797	151327715	-	5456	
protein_coding	phosphatidylinositol 4-kinase beta [Source:HGNC				
Symbol;Acc:HGNC:8984]	-	1736	2396	2198	2812 3216
2588	17.40083432	19.36183033		18.66189675	
24.91966336	25.68622463	22.1429738			
ENSG00000230630	183.9569064	145.5313291		172.0925212	
84.38457065	93.2137075	87.32818123		167.1935856	
88.30881979	0.919573601	0.004252388		0.032568263	DNM30S
1	172138397	172144840	-	3195	
antisense	DNM3 opposite strand/antisense RNA [Source:HGNC				
Symbol;Acc:HGNC:41228]	-	159	157	176	84 102
89	2.721579184	2.166520226		2.551786063	
1.271187577	1.391194676	1.300364725			
ENSG00000106635	1251.832533	1407.111832		1290.693909	
1872.533806	1643.12006	1724.976883		1316.546091	
1746.876916	-0.407608712	0.004263492		0.032636955	BCL7B
7	73536356	73558002	-	3542	
protein_coding	BCL tumor suppressor 7B [Source:HGNC				
Symbol;Acc:HGNC:1005]	-	1082	1518	1320	1864 1798
1758	16.70603614	18.89544711		17.2634595	
25.44477223	22.12074392	23.16948335			
ENSG00000006625	636.3289216	849.087245		705.9704565	
347.5840648	444.1359004	604.42876		730.4622077	
465.3829084	0.650870068	0.004269162		0.032650149	GGCT
7	30496621	30504844	-	1597	
protein_coding	gamma-glutamylcyclotransferase [Source:HGNC				
Symbol;Acc:HGNC:21705]	-	550	916	722	346 486
616	18.8344302	25.28858419		20.94279961	
10.47544303	13.26141759	18.00619014			
ENSG00000197046	6135.367766	6906.71295		6761.476048	
7587.579311	8970.448557	8843.695477		6601.185588	
8467.241115	-0.35910332	0.004270317		0.032650149	
SIGLEC15	18	45825512	45844080	+	3598
protein_coding	sialic acid binding Ig like lectin 15				
[Source:HGNC Symbol;Acc:HGNC:27596]	-			5303	7451 6915
7553	9816	9013	80.60373766	91.30348663	
89.02940712	101.4984809	118.8863486		116.9376193	
ENSG00000078018	193.2125998	74.15609127		171.1147228	
52.23806755	8.224738897	76.53481052		146.161138	
45.66587232	1.679665635	0.004271623		0.032650149	MAP2
2	209424058	209734118	+	11559	
protein_coding	microtubule associated protein 2 [Source:HGNC				
Symbol;Acc:HGNC:6839]	-	167	80	175	52 9
78	0.790116116	0.305143189		0.701326486	
0.217512538	0.033929764	0.315007123			
ENSG00000139112	171.230328	190.0249839		149.6031577	
275.2544328	291.5213009	277.683992		170.2861565	
281.4865752	-0.724919112	0.004276347		0.032655686	
GABARAPL1	12	10212458	10223130	+	4086
protein_coding	GABA type A receptor associated protein like 1				

[Source:HGNC Symbol;Acc:HGNC:4068]	-	148	205	153
274	319	283	1.980879538	2.212022075
1.734584752	3.242301648	3.402130109	3.233211457	
ENSG00000172244	297.3391507	192.8058373	274.7613549	
161.7370937	138.9067014	131.4828796	254.968781	
144.0422249	0.822754954	0.00427662	0.032655686	
C5orf34 5	43486701	43515145	-	3011
protein_coding	chromosome 5 open reading frame	34	[Source:HGNC	
Symbol;Acc:HGNC:24738]	-	257	208	281 161 152
134	4.66785203	3.045695891	4.323127261	
2.585332091	2.1998417	2.077495438		
ENSG00000224592	11.56961676	1.853902282	17.60037149	0
0	0	10.34129684	0	5.861840273
0.004285944	1	AL139158.2	1	38047314
38119025	+	684	lincRNA novel transcript	-
10	2	18	0	0 0.799537082
0.128916306	1.219042535	0	0	0
ENSG00000069849	3875.821614	3669.799567	4017.773692	
3198.577059	2321.204089	3085.922809	3854.464957	
2868.567985	0.426334836	0.004311908	0.032908703	ATP1B3
3	141876124	141926514	+	2584
protein_coding	ATPase Na+/K+ transporting subunit beta 3	[Source:HGNC		
Symbol;Acc:HGNC:806]	-	3350	3959	4109 3184 2540
3145	70.90012657	67.5502484	73.66243786	
59.57743016	42.83510197	56.81646068		
ENSG00000259298	4.627846703	12.97731597	11.73358099	0
0	0	9.779581223	0	5.785374154
0.004325105	1	AC012170.2	15	50497195
50498744	-	667	antisense	"novel transcript,
antisense to USP8"	-	4	14	12 0 0
0	0.327966036	0.925414201	0.833408389	0
0	0			
ENSG00000197903	258.0024537	212.2718113	236.6272167	
403.8404453	297.91832	447.4342769	235.6338272	
383.0643474	-0.701570028	0.004336805	0.033082202	
HIST1H2BK	6	27146418	27146798	- 381
protein_coding	histone cluster 1 H2B family member k			
[Source:HGNC Symbol;Acc:HGNC:13954]	-	223	229	242
402	326	456	32.00918379	26.49991401
29.42339934	51.0155172	37.28646592	55.8709303	
ENSG00000135439	167.759443	232.6647364	254.2275882	
306.3963577	395.7013269	382.6740526	218.2172558	
361.5905791	-0.726834188	0.004339037	0.033082722	AGAP2
12	57723761	57742157	-	6728
protein_coding	"ArfGAP with GTPase domain, ankyrin repeat and PH			
domain 2 [Source:HGNC Symbol;Acc:HGNC:16921]"	-	145	251	
260	305	433	390	1.17862794 1.644832569
1.790151641	2.191871416	2.804532721	2.705980484	
ENSG00000182534	2703.819436	2706.697331	2487.519171	
1634.448767	2256.320037	1960.468608	2632.678646	

1950.412471	0.432501792	0.004354628	0.033185041	MXRA7
17	76672551	76711016	- 9257	
protein_coding	matrix remodeling associated 7	[Source:HGNC		
Symbol;Acc:HGNC:7541]	-	2337 2920	2544 1627	2469
1998	13.80648614	13.90741921	12.7306125	
8.498034809	11.62276412	10.07560785		
ENSG00000121073	1486.695753	1378.376346	1349.361814	
1023.665208	1123.133789	1004.764692	1404.811305	
1050.52123	0.418865496	0.004361528	0.033194992	
SLC35B1 17	49700934	49709014	- 5928	
protein_coding	solute carrier family 35 member B1	[Source:HGNC		
Symbol;Acc:HGNC:20798]	-	1285 1487	1380 1019	1229
1024	11.85467482	11.05953154	10.78383781	
8.31126645	9.034461794	8.063763788		
ENSG00000184060	23.13923351	25.0276808	23.46716199	
69.31589732	62.14247166	67.70387084	23.87802544	
66.38741328	-1.474235722	0.004361643	0.033194992	ADAP2
17	30906344	30959322	+ 3750	
protein_coding	ArfGAP with dual PH domains 2	[Source:HGNC		
Symbol;Acc:HGNC:16487]	-	20 27	24 69	68
69	0.291671128	0.317443511	0.296471144	
0.889649706	0.790198576	0.858942039		
ENSG00000267751	1.156961676	7.415609127	2.933395248	
39.17855066	18.27719755	25.51160351	3.835322017	
27.6557839	-2.823763495	0.004362448	0.033194992	
AC009005.1	19 567210	572228 -	865 antisense	
uncharacterized LOC105372233	[Source:NCBI gene;Acc:105372233]			
-	1 8	3 39	20 26	
0.06322351	0.40776302	0.160659941	2.179965979	
1.007563638	1.403147337			
ENSG00000115806	2538.373917	2213.559324	2071.954844	
3297.025725	2831.1379	2885.754843	2274.629362	
3004.639489	-0.401816031	0.004366149	0.033206626	
GORASP2 2	170928464	170967129	+ 5340	
protein_coding	golgi reassembly stacking protein 2	[Source:HGNC		
Symbol;Acc:HGNC:17500]	-	2194 2388	2119 3282	3098
2941	22.46932774	19.7163729	18.38197434	
29.71656016	25.28126227	25.70986542		
ENSG00000092345	16.19746346	14.83121825	0.977798416	0
0	0	10.66882671	0	5.906709332
0.004381681	1	DAZL 3	16586792	16670306
-	3631	protein_coding	deleted in azoospermia like	
[Source:HGNC Symbol;Acc:HGNC:2685]	-	14	16	1
0	0	0	0.210861115	0.19427982
0.012757812	0	0	0	
ENSG00000250548	6.941770054	19.46597396	21.51156516	0
0	1.962431039	15.97310306	0.65414368	
4.625884758	0.004396626	1	LINC01303	14
61556313	61570653	-	5148	lincRNA long
intergenic non-protein coding RNA 1303	[Source:HGNC			

Symbol;Acc:HGNC:50470]	-	6	21	22	0	0
2	0.06373932	0.179851769		0.197964172		0
0	0.018135832					
ENSG00000184557	659.4681552	1106.779662		1351.317411		
535.4401923	563.8515444	813.4276656		1039.188409		
637.5731341	0.705584946	0.004401548		0.03345921		SOCS3
17	78356778	78360077		-	2734	
protein_coding	suppressor of cytokine signaling 3 [Source:HGNC					
Symbol;Acc:HGNC:19391]	-	570	1194	1382	533	617
829	11.40173803	19.25483381		23.41596114		
9.426053823	9.834340738	14.1547452				
ENSG00000171476	5.784808379	4.634755704		19.55596832		0
0	0	9.991844135	0	5.814772251		
0.004402414	1	HOPX	4	56647988	56681899	
-	7753	protein_coding	HOP	homeobox [Source:HGNC		
Symbol;Acc:HGNC:24961]	-	5	5	20	0	0
0	0.035269145	0.028433752		0.119498559		0
0	0					
ENSG00000174744	1517.933719	1852.048379		1819.682852		
2476.285317	2270.027936	2157.692927		1729.888317		
2301.335393	-0.411286639	0.004409619		0.0335039		BRMS1
11	66337333	66345125		-	2514	
protein_coding	"BRMS1, transcriptional repressor and anoikis					
regulator [Source:HGNC Symbol;Acc:HGNC:17262]"	-			1312	1998	
1861	2465	2484	2199	28.54061153	35.04000573	
34.29126888	47.40813455	43.0571139		40.83250198		
ENSG00000197774	98.34174244	164.9973031		228.8048294		
474.1609208	195.5660138	330.6696301		164.0479583		
333.4655215	-1.020599845	0.004414403		0.033523583		EME2
16	1773207	1781708	+	6909	protein_coding	
essential meiotic structure-specific endonuclease subunit 2	[Source:HGNC Symbol;Acc:HGNC:27289]					
	-			85	178	234
472	214	337	0.672819308	1.135896516		
1.568928386	3.30314792	1.349761941		2.276988011		
ENSG00000145555	4156.963301	4122.151723		5695.675774		
3342.231745	3200.337291	3753.149362		4658.263599		
3431.906132	0.440893988	0.004424666		0.033584838		MYO10
5	16661914	16936276		-	13963	
protein_coding	myosin X [Source:HGNC Symbol;Acc:HGNC:7593]					-
3593	4447	5825	3327	3502	3825	14.07256269
14.04178598	19.32500645	11.52060481		10.92939196		
12.78788545						
ENSG00000214655	939.4528807	1268.069161		1060.911282		
1792.167548	1218.175217	1712.221081		1089.477774		
1574.187949	-0.530166447	0.004432564		0.033628093		ZSWIM8
10	73785582	73801797		+	7953	
protein_coding	zinc finger SWIM-type containing 8 [Source:HGNC					
Symbol;Acc:HGNC:23528]	-	812	1368	1085	1784	1333
1745	5.58367021	7.583838446		6.319769106		
10.84588722	7.303949549	10.24260641				

ENSG00000151612	473.1973254	319.7981436	458.5874572	
320.4604528	198.3075934	224.698354	417.1943087	
247.8221334	0.751352057	0.004452648	0.033763705	ZNF827
4	145757627	145938635	- 8433	
protein_coding	zinc finger protein 827 [Source:HGNC			
Symbol;Acc:HGNC:27193]	zf-C2H2	409 345	469 319	217
229	2.652381074	1.803727608	2.576280808	
1.828983549	1.121337203	1.267650167		
ENSG00000213347	163.1315963	168.7051076	393.0749633	
138.6317946	39.29597473	121.6707244	241.6372224	
99.86616459	1.276997521	0.004456181	0.033773746	MXD3
5	177301461	177312757	- 5154	
protein_coding	MAX dimerization protein 3 [Source:HGNC			
Symbol;Acc:HGNC:14008]	bHLH	141 182	402 138	43
124	1.496130275	1.556900764	3.613134218	
1.294600853	0.363565479	1.123112619		
ENSG00000164096	1659.083043	1662.023396	1347.406217	
1723.856229	2588.051173	2263.664203	1556.170885	
2191.857202	-0.494444926	0.004460031	0.033786172	C4orf3
4	119296419	119304445	- 3148	
protein_coding	chromosome 4 open reading frame 3 [Source:HGNC			
Symbol;Acc:HGNC:19225]	-	1434 1793	1378 1716	2832
2307	24.91203127	25.11189714	20.27761858	
26.35625959	39.20280326	34.21045944		
ENSG00000171475	1517.933719	1561.912672	1484.297996	
2017.19307	1843.255373	2116.481875	1521.381462	
1992.310106	-0.388923002	0.004463572	0.033796247	WIPF2
17	40219304	40284136	+ 8123	
protein_coding	WAS/WASL interacting protein family member 2			
[Source:HGNC	Symbol;Acc:HGNC:30923]	-	1312 1685	1518
2008	2017 2157	8.833078591	9.145709656	
8.656807776	11.95221706	10.82051777	12.39594749	
ENSG00000058600	1435.78944	1686.124125	1525.365529	
2034.2709	1956.573998	2122.369169	1549.093031	
2037.738022	-0.395110563	0.004471341	0.033838314	POLR3E
16	22297375	22335103	+ 9488	
protein_coding	RNA polymerase III subunit E [Source:HGNC			
Symbol;Acc:HGNC:30347]	-	1241 1819	1560 2025	2141
2163	7.153059181	8.452632377	7.61644619	
10.31933159	9.833329433	10.64211332		
ENSG00000118263	802.9314029	769.3694469	593.5236386	
1121.109296	1038.144821	927.2486659	721.9414962	
1028.834261	-0.511496595	0.004487022	0.033940183	KLF7
2	207074137	207167267	- 9262	
protein_coding	Kruppel like factor 7 [Source:HGNC			
Symbol;Acc:HGNC:6350]	zf-C2H2	694 830	607 1116	1136
945	4.097787247	3.95100222	3.035892367	
5.825867921	5.344808537	4.762917595		
ENSG00000240527	84.45820233	86.2064561	66.4902923	
146.6684204	189.1689946	133.4453106	79.05165024	

156.4275752	-0.985701384	0.004507285	0.034076592	
AL365273.1	10	95833508	95873758	+ 587
	sense_intronic	"novel transcript, sense intronic to ENTPD1"		
-	73	93	68	146 207 136
6.801104871	6.985199356	5.366279232	12.02585522	
15.36706195	10.81550601			
ENSG00000132406	429.2327817	335.556313	339.2960504	
221.0072088	222.9818101	252.1723885	368.0283817	
232.0538025	0.664285124	0.004528965	0.034223574	
TMEM128 4	4235542	4248212	- 1737	protein_coding
transmembrane protein 128	[Source:HGNC Symbol;Acc:HGNC:28201]			-
	371	362	347	220 244 257 11.68069822
	9.188459598	9.254055763	6.123843436	6.121369646
	6.906839129			
ENSG00000134321	5.784808379	36.15109449	10.75578258	
60.27469332	152.6145995	22.56795695	17.56389515	
78.48574993	-2.150133516	0.004532703	0.034234893	RSAD2
	2	6865806	6898239	+ 4834 protein_coding
radical S-adenosyl methionine domain containing 2	[Source:HGNC Symbol;Acc:HGNC:30908]			-
	23	0.056566339	0.355706596	0.105411622
0.600130668	1.505457234	0.222109547		
ENSG00000152894	4052.83675	2766.022204	3621.765333	
2726.425295	2496.665185	2436.358135	3480.208096	
2553.149538	0.446618042	0.004537984	0.034257861	PTPRK
	6	127968779	128520674	- 9000
protein_coding	"protein tyrosine phosphatase, receptor type K			
[Source:HGNC Symbol;Acc:HGNC:9674]"				- 3503 2984 3704
	2714	2732	2483	21.28591584 14.61807775
19.06474165	14.58037018	13.2280791	12.87894374	
ENSG00000254122	62.47593049	27.80853423	42.04533189	
1.004578222	5.483159264	17.66187935	44.1099322	
8.049872279	2.4521286	0.004543134	0.034269055	
PCDHGB7 5	141417645	141512979	+ 4966	
protein_coding	"protocadherin gamma subfamily B, 7 [Source:HGNC			
Symbol;Acc:HGNC:8714]"				- 54 30 43 1 6
	18	0.594677843	0.266347422	0.401110653
0.009736312	0.052650577	0.169204468		
ENSG00000004975	1299.267962	1841.851917	1698.435849	
2061.394512	2250.836878	2325.480781	1613.185243	
2212.570724	-0.455172986	0.004543951	0.034269055	DVL2
	17	7225341	7234545	- 5350 protein_coding
dishevelled segment polarity protein 2	[Source:HGNC Symbol;Acc:HGNC:3086]			-
	2370	11.47943959	16.37487687	1737 2052 2463
18.5449126	20.0617691	20.67952695		
ENSG00000133935	592.364378	717.460183	709.8816501	
380.7351461	524.5555696	458.2276476	673.2354037	
454.5061211	0.56691656	0.004548117	0.034283563	ERG28
	14	75649791	75661189	- 2633

protein_coding	ergosterol biosynthesis 28 homolog	[Source:HGNC					
Symbol;Acc:HGNC:1187]	-	512	774	726	379	574	
467	10.63442015	12.96056873	12.77286192				
6.95968474	9.499913065	8.279651501					
ENSG00000135898	0	0	0	17.07782977	9.138598774		
	3.924862078	0	10.04709688	-5.747998498			
0.004554614	1	GPR55	2	230907318	230961066		
-	4130	protein_coding		G protein-coupled receptor	55		
[Source:HGNC Symbol;Acc:HGNC:4511]	-	0	0	0	0		
17	10	4	0	0	0.199021542		
0.105513626	0.045212235						
ENSG00000135744	20.82531016	2.780853423		6.844588913	0		
	0	10.15025083	0	5.831243265			
0.004560575	1	AGT	1	230702523	230714297		
-	2291	protein_coding		angiotensinogen	[Source:HGNC		
Symbol;Acc:HGNC:333]	-	18	3	7	0	0	
0	0.429677021	0.057733797		0.141538767	0		
0	0						
ENSG00000204568	1963.363964	2207.070666		2107.155587			
2649.072771	2744.321212	2687.549308		2092.530072			
2693.647764	-0.364072131	0.004569452		0.034427407			
MRPS18B	6	30617709	30626395	+	1888		
protein_coding	mitochondrial ribosomal protein	S18B	[Source:HGNC				
Symbol;Acc:HGNC:14516]	-	1697	2381	2155	2637	3003	
2739	49.15577697	55.60212163		52.87467858			
67.53196027	69.31256009	67.72298282					
ENSG00000211683	2.313923351	20.3929251		7.822387329	0		
	0	10.17641193	0	5.844280291			
0.004571212	1	AP000346.1	22	23630618			
23638941	-	1087	processed_transcript	novel			
transcript	-	2	22	8	0	0	0
0.100622514	0.892333289	0.340928179		0	0		
0							
ENSG00000125637	593.5213396	727.6566456		712.8150454			
914.166182	901.979699	1032.238726		677.9976769			
949.4615358	-0.484906045	0.004571959		0.034429328	PSD4		
2	113157325	113209396		+	13442		
protein_coding	pleckstrin and Sec7 domain containing	4	[Source:HGNC				
Symbol;Acc:HGNC:19096]	-	513	785	729	910	987	
1052	2.087123686	2.574777609		2.512268732			
3.273246542	3.199719141	3.653405553					
ENSG00000254545	0	1.853902282		7.822387329	20.09156444		
	42.95141424	20.60552591		3.22542987	27.88283486		
	-3.090665768	0.004588234		0.034534876	AL354919.2		
1	31789130	31791322		+	537		
antisense	novel transcript		-	0	2	8	
20	47	21	0	0.164206244	0.69010974		
	1.800764525	3.814013009		1.825538703			
ENSG00000156642	1797.918444	1629.580106		1741.458979			
1228.599166	1477.711422	1038.12602		1722.985843			

1248.145536	0.464719478	0.00460453	0.034640478	NPTN
15	73560014	73634134	- 4032	
protein_coding	neuroplastin	[Source:HGNC Symbol;Acc:HGNC:17867]		
-	1554 1758	1781 1223	1617 1058	
21.07779633	19.22349306	20.461895	14.665847	
17.47624378	12.24929743			
ENSG00000235374	62.47593049	59.32487301	63.55689705	
139.6363729	114.2324847	126.576802	61.78590018	
126.8152198	-1.037317183	0.004607174	0.034643317	SSR4P1
21	45070952	45074165	- 2636	
transcribed_processed_pseudogene		signal sequence receptor		
subunit 4 pseudogene 1	[Source:HGNC Symbol;Acc:HGNC:23131]		-	
54	64 65	139 125	129 1.120322522	
	1.070455274	1.142274302	2.549591548	2.066441927
	2.284495675			
ENSG00000231298	128.422746	40.7858502	72.3570828	
32.1465031	17.36333767	29.43646558	80.521893	
26.31543545	1.612018476	0.004624977	0.03476009	MANCR
10	4650185 4678154	- 1920	lincRNA mitotically	
associated long non coding RNA	[Source:HGNC Symbol;Acc:HGNC:44678]			
-	111 44	74 32	19 30	
3.16166945	1.010381547	1.785389379	0.805842125	
0.431231989	0.729400509			
ENSG00000171451	658.3111935	390.2464303	458.5874572	
790.6030607	699.1028062	812.4464501	502.3816937	
767.3841057	-0.612913941	0.004627349	0.034760825	DSEL
18	67506582	67516980	- 9531	
protein_coding	dermatan sulfate epimerase like	[Source:HGNC		
Symbol;Acc:HGNC:18144]	-	569 421	469 787	765
828	3.264889668	1.947500529	2.279485474	
3.992431554	3.497691997	4.055439278		
ENSG00000163605	2647.128314	1948.451298	1995.686567	
1333.075301	1934.64136	1281.467468	2197.088726	
1516.39471	0.534320872	0.00463331	0.034788509	PPP4R2
3	72996785	73069199	+ 5964	
protein_coding	protein phosphatase 4 regulatory subunit 2			
[Source:HGNC Symbol;Acc:HGNC:18296]	-	2288 2102	2041	
1327	2117 1306	20.98036783	15.53921354	
15.85286735	10.75807344	15.46827274	10.22236957	
ENSG00000114857	2243.348689	2114.375552	2250.891954	
1922.762717	1450.295625	1538.545935	2202.872065	
1637.201426	0.428291599	0.00464892	0.034872998	NKTR
3	42600614	42648741	+ 17356	
protein_coding	natural killer cell triggering receptor	[Source:HGNC		
Symbol;Acc:HGNC:7833]	-	1939 2281	2302 1914	1587
1568	6.109742126	5.794415071	6.144097992	
5.332041347	3.984610573	4.217377267		
ENSG00000090615	3990.36082	3809.769189	4498.850513	
5985.277047	4490.707438	5948.128479	4099.660174	
5474.704321	-0.417187771	0.004649125	0.034872998	GOLGA3

12	132768909	132828858	-	10549	
protein_coding	golgin A3 [Source:HGNC Symbol;Acc:HGNC:4426]				-
3449	4110	4601	5958	4914	6062
17.17767919	20.20428085	27.30803325	20.29936523		
26.82567604					
ENSG00000150636	222.1366417	175.1937656	193.6040864		
72.32963199	140.7344211	88.30939675	196.9781646		
100.4578166	0.968747041	0.004654781	0.034898304		
CCDC102B	18	68715209	69055189	+	5805
protein_coding	coiled-coil domain containing 102B				
[Source:HGNC Symbol;Acc:HGNC:26295]			-	192	189
72	154	90	1.808813195	1.435468075	
1.580030324	0.599696465	1.156051268	0.723746241		
ENSG00000259956	1755.110862	2369.287116	2767.169518		
3333.190541	3155.558157	3065.317283	2297.189165		
3184.68866	-0.470812282	0.004663422	0.034945948		RBM15B
3	51391268	51397908	+	6641	
protein_coding	RNA binding motif protein 15B [Source:HGNC				
Symbol;Acc:HGNC:24303]	-	1517	2556	2830	3318
3124	12.4924268	16.96919839	19.74037557		3453
24.15706222	22.65800644	21.95955731			
ENSG00000143061	75.20250892	93.62206523	231.7382246		
42.19228532	63.97019142	51.02320701	133.5209329		
52.39522792	1.349923408	0.004675888	0.035022195		IGSF3
1	116574399	116667755	-	7400	
protein_coding	immunoglobulin superfamily member 3 [Source:HGNC				
Symbol;Acc:HGNC:5950]	-	65	101	237	42
52	0.480370523	0.60176041	1.483607712		70
0.274421913	0.41221607	0.328033094			
ENSG00000169221	1384.883126	1617.529741	1831.416433		
2143.769926	2228.904241	2099.801212	1611.276433		
2157.491793	-0.42071448	0.004681825	0.035049493		
TBC1D10B	16	30357102	30370264	-	6699
protein_coding	TBC1 domain family member 10B [Source:HGNC				
Symbol;Acc:HGNC:24510]	-	1197	1745	1873	2134
2140	9.771897105	11.48469356	12.95180375		2439
15.40230268	15.86574319	14.91247853			
ENSG00000138796	1644.042541	1411.746588	1386.518154		
998.5507527	1246.504873	979.2530884	1480.769094		
1074.769571	0.461655842	0.004688569	0.035082795		HADH
4	107989714	108035175	+	12086	
protein_coding	hydroxyacyl-CoA dehydrogenase [Source:HGNC				
Symbol;Acc:HGNC:4799]	-	1421	1523	1418	994
998	6.429929345	5.555859716	5.434956804		1364
3.976536847	4.918020992	3.854730208			
ENSG00000078618	5814.889382	4973.092871	5181.353807		
4365.896953	4084.953652	4058.307389	5323.11202		
4169.719331	0.352184054	0.004693061	0.035089297		NRDC
1	51789191	51878937	-	6773	
protein_coding	nardilysin convertase [Source:HGNC				

Symbol;Acc:HGNC:7995]	-	5026	5365	5299	4346	4470
4136	40.58224995	34.92388976		36.24226234		
31.02486232	28.75974594	28.5066045				
ENSG00000163545	93.71389573	139.0426711		172.0925212		
68.3113191	42.95141424	71.62873292		134.949696		
60.96382209	1.14958782	0.004694028		0.035089297		NUAK2
1	205302059	205321791		-	3441	
protein_coding	NUAK family kinase 2 [Source:HGNC					
Symbol;Acc:HGNC:29558]	-	81	150	176	68	47
73	1.287345321	1.921943181		2.369356719		
0.955488483	0.595212143	0.990339778				
ENSG00000178425	797.1465946	802.739688		807.6614917		
576.6278994	588.5257611	580.8795875		802.5159248		
582.0110827	0.463479907	0.004723673		0.035275482		NT5DC1
6	116100849	116249497		+	7309	
protein_coding	5'-nucleotidase domain containing 1 [Source:HGNC					
Symbol;Acc:HGNC:21556]	-	689	866	826	574	644
592	5.155324094	5.223888373		5.235094688		
3.79712721	3.839604599	3.781027018				
ENSG00000166450	249.903722	161.2894985		343.2072441		
181.8286582	40.20983461	95.17790539		251.4668215		
105.7387994	1.251479919	0.004725329		0.035275482		PRTG
15	55611546	55743090		-	14566	
protein_coding	protogenin [Source:HGNC Symbol;Acc:HGNC:26373]					-
216	174	351	181	44	97	0.810976292
	0.526675239	1.116270035	0.600813228	0.131634876		
	0.310869035					
ENSG00000079974	577.3238762	551.5359288		320.7178805		
732.3375239	705.4998254	832.0707605		483.1925618		
756.6360366	-0.647651607	0.004725858		0.035275482		RABL2B
22	50767501	50783663		-	5870	
protein_coding	"RAB, member of RAS oncogene family like 2B					
[Source:HGNC Symbol;Acc:HGNC:9800]"	-			499	595	328
729	772	848	4.648974426	4.469025394		
2.588440571	6.004690723	5.731097499		6.7437861		
ENSG00000109919	2375.24232	2346.113337		2343.782804		
1986.051145	1789.33764	1610.174667		2355.046154		
1795.187817	0.391646883	0.004728492		0.03527792		MTCH2
11	47617315	47642623		-	2897	
protein_coding	mitochondrial carrier 2 [Source:HGNC					
Symbol;Acc:HGNC:17587]	-	2053	2531	2397	1977	1958
1641	38.75566265	38.51923097		38.32851512		
32.99585532	29.45254241	26.44271972				
ENSG00000173068	684.921312	450.4982545		653.169342		
428.9549008	297.91832	406.2232251		596.1963028		
377.6988153	0.658297711	0.004741977		0.035361266		BNC2
9	16409503	16870843		-	15323	
protein_coding	basonuclin 2 [Source:HGNC Symbol;Acc:HGNC:30988]					
zf-C2H2	592	486	668	427	326	414
2.112869227	1.398383934	2.019459355		1.347365088		

0.927112414	1.261254055					
ENSG00000146147	16.19746346	12.05036483	1.955596832	0		
0	0	10.06780837	0	5.822353335		
0.004743918	1	MLIP	6	53929982	54266280	
+	7293	protein_coding	muscular	LMNA	interacting	
protein [Source:HGNC	Symbol;Acc:HGNC:21355]	-	14	13		
2	0	0	0	0.104982409	0.078590689	
0.012703583	0	0	0			
ENSG00000118418	617.8175348	844.4524893	673.7031087			
439.000683	486.1734548	529.8563805	711.9910443			
485.0101728	0.554571854	0.004756025	0.035448733			HMG3
6	79201245	79234738	-	1014		
protein_coding	high mobility group	nucleosomal	binding domain	3		
[Source:HGNC	Symbol;Acc:HGNC:12312]	Others	534	911	689	
437	532	540	28.80036652	39.61086988		
31.47630339	20.83745613	22.86295045	24.86004101			
ENSG00000174343	35.86581195	65.813531	21.51156516			
102.4669786	95.04142725	120.6895089	41.06363603			
106.0659716	-1.365308544	0.004763242	0.035470539			CHRNA9
4	40335329	40355217	+	3168		
protein_coding	cholinergic receptor	nicotinic	alpha 9 subunit			
[Source:HGNC	Symbol;Acc:HGNC:14079]	-	31	71	22	
102	104	123	0.535144706	0.988114185		
0.32169178	1.556740469	1.430562262	1.812449749			
ENSG00000166166	897.8022604	1300.512451	1170.424704			
1562.119135	1574.580569	1540.508366	1122.913138			
1559.069357	-0.472526009	0.004763591	0.035470539			
TRMT61A	14	103529184	103537073	+	3229	
protein_coding	tRNA methyltransferase	61A [Source:HGNC				
Symbol;Acc:HGNC:23790]	-	776	1403	1197	1555	1723
1570	13.14281483	19.1568273	17.17230372			
23.2843203	23.25283073	22.69748006				
ENSG00000008311	410.7213949	321.6520459	494.7659986			
121.5539649	286.9520015	260.0221127	409.0464798			
222.842693	0.875117259	0.0047759	0.035544881			AASS
7	122075647	122144280	-	4591		
protein_coding	aminoadipate-semialdehyde	synthase [Source:HGNC				
Symbol;Acc:HGNC:17366]	-	355	347	506	121	314
265	4.228786633	3.332392436	5.105586986			
1.274322332	2.98044391	2.694539888				
ENSG00000138073	654.8403085	900.0695578	877.0851793			
1211.521336	1091.148694	1122.510554	810.6650152			
1141.726861	-0.492889659	0.004786642	0.035607495			PREB
2	27130756	27134675	-	3221		
protein_coding	prolactin regulatory element	binding [Source:HGNC				
Symbol;Acc:HGNC:9356]	Others	566	971	897	1206	1194
1144	9.609934312	13.29114705	12.90042963			
18.10330213	16.15370694	16.57987819				
ENSG00000185238	760.1238209	802.739688	697.1702707			
542.4722399	440.4804609	584.8044496	753.3445932			

522.5857168	0.528101787	0.004790591	0.035619532	PRMT3
11	20387530	20509294	+ 5467	
protein_coding	protein arginine methyltransferase 3 [Source:HGNC			
Symbol;Acc:HGNC:30163]	-	657 866	713 540	482
596	6.572203592	6.983976608	6.041474013	
4.775797484	3.841992937	5.089126212		
ENSG00000173166	236.0201818	249.3498569	220.9824421	
149.6821551	122.4572236	142.2762503	235.4508269	
138.138543	0.770020098	0.004792945	0.035619715	RAPH1
2	203394345	203535410	- 11697	
protein_coding	Ras association (RalGDS/AF-6) and pleckstrin homology			
domains 1 [Source:HGNC	Symbol;Acc:HGNC:14436]	-	204 269	
226	149 134 145	0.953784785	1.013938813	
	0.895027553 0.615903958	0.499216471	0.578681433	
ENSG00000173818	466.2555553	733.2183524	541.7003226	
734.3466803	892.8411002	1003.783476	580.3914101	
876.990419	-0.594381297	0.004829411	0.035857411	ENDOV
17	80415165	80438086	+ 7253	
protein_coding	endonuclease V [Source:HGNC	Symbol;Acc:HGNC:26640]		
-	403 791	554 731	977 1023	
3.038659807	4.80831337	3.538299109	4.873050544	
5.869964625	6.584214822			
ENSG00000124333	2573.082767	1868.7335	1865.639378	
1423.487341	1704.348671	1401.175762	2102.485215	
1509.670591	0.477199868	0.004829621	0.035857411	VAMP7
X	155881293	155943769	+ 2667	
protein_coding	vesicle associated membrane protein 7 [Source:HGNC			
Symbol;Acc:HGNC:11486]	-	2224 2016	1908 1417 1865	
1428	45.60437204	33.32740277	33.14040492	
25.68905041	30.47294433	24.99488987		
ENSG00000072210	885.0756819	950.1249194	877.0851793	
709.2322247	640.6157741	618.1657773	904.0952602	
656.004592	0.46307361	0.004839007	0.035909657	
ALDH3A2 17	19648136	19677598	+ 6457	
protein_coding	aldehyde dehydrogenase 3 family member A2 [Source:HGNC			
Symbol;Acc:HGNC:403]	-	765 1025	897 706 701	
630	6.479259311	6.998855659	6.435230577	
5.286583926	4.730922452	4.554658279		
ENSG00000151640	548.3998343	725.8027433	626.7687848	
790.6030607	925.7400558	1013.595632	633.6571208	
909.9795827	-0.521268838	0.004851677	0.035986213	DPYSL4
10	132186900	132205776	+ 3176	
protein_coding	dihydropyrimidinase like 4 [Source:HGNC			
Symbol;Acc:HGNC:3016]	-	474 783	641 787 1013	
1033	8.161924266	10.86964164	9.349319287	
11.98106585	13.89912784	15.18328918		
ENSG00000165684	672.1947336	1015.011499	1066.778072	
1304.94711	1268.43751	1409.025486	917.9947683	
1327.470035	-0.531008875	0.004908116	0.036387182	SNAPC4
9	136375577	136400168	- 5045	

protein_coding	small nuclear RNA activating complex polypeptide 4						
[Source:HGNC Symbol;Acc:HGNC:11137]	MYB	581	1095	1091			
1299	1388	1436	6.298101777	9.569448435			
10.01765419	12.44942224		11.98910858	13.28737846			
ENSG00000100505	219.8227184		206.7101044	114.4024147			
363.6573164	274.1579632		321.8386904	180.3117458			
319.8846567	-0.828058077		0.004911412	0.036390388			TRIM9
14	50975262		51096061	-	8945		
protein_coding	tripartite motif containing 9						
[Source:HGNC Symbol;Acc:HGNC:16288]	-	190	223	117	362		300
328	1.161630399		1.099153826	0.605909794			
1.956723416	1.461502315		1.711746839				
ENSG00000181929	1469.341328		1423.796952	1353.273008			
1756.002732	2001.353132		1813.28628	1415.470429			
1856.880715	-0.391877463		0.004915551	0.036390388			PRKAG1
12	49002274		49018825	-	4184		
protein_coding	protein kinase AMP-activated non-catalytic subunit gamma 1						
[Source:HGNC Symbol;Acc:HGNC:9385]	-			1270	1536		
1384	1748	2190	1848	16.59994916	16.18577496		
15.32310826	20.19998137		22.80925165	20.61846486			
ENSG00000231079	2.313923351		12.97731597	0	8.036625776		
75.85036983	41.21105182		5.097079774	41.69934914			
-3.015554474	0.004916212		0.036390388	AC105402.3			
2	148866470		148888823	-	4156		
antisense	novel transcript			2	14		0
8	83	42	0.026317775	0.148520518			0
0.093071275	0.870284305		0.471758558				
ENSG00000163870	770.536476		1100.291004	894.6855508			
1330.061566	1261.126631		1271.655313	921.837677			
1287.614503	-0.481117829		0.00491807	0.036390388			TPRA1
3	127571266		127598267	-	5622		
protein_coding	transmembrane protein adipocyte associated 1						
[Source:HGNC Symbol;Acc:HGNC:30413]	-			666	1187		915
1324	1380	1296	6.478554262	9.308802917			
7.539329229	11.38671263		10.69662678	10.76118744			
ENSG00000180901	940.6098424		1011.303695	1177.269293			
1418.464449	1567.26969		1294.22327	1043.060943			
1426.65247	-0.451542123		0.004923567	0.036413435			KCTD2
17	75032575		75065889	+	5279		
protein_coding	potassium channel tetramerization domain containing 2						
[Source:HGNC Symbol;Acc:HGNC:21294]	-			813	1091		1204
1412	1715	1319	8.422356037	9.111860172			
10.56518925	12.93255253		14.1569944	11.66377597			
ENSG00000184313	0	0	0	17.07782977	5.483159264		
6.868508636	0		9.809832558	-5.712914616			
0.004924068	1	MROH7	1	54641754	54710266		
+	9088	protein_coding	maestro heat like repeat				
family member 7	[Source:HGNC Symbol;Acc:HGNC:24802]	-					0
0	0	17	6	7	0		0
0.090444429	0.02877011		0.035956363				

ENSG00000164307	771.6934377	742.4878638	1058.955685		
568.5912737	626.9078759	573.0298634	857.7123287		
589.509671	0.541056806	0.004927343	0.036423741	ERAP1	
5	96760810	96808100	- 7945		
protein_coding	endoplasmic reticulum aminopeptidase 1 [Source:HGNC				
Symbol;Acc:HGNC:18173]	-	667 801	1083 566	686	
584	4.591204581	4.445008262	6.31447155		
3.444480624	3.762606591	3.431349706			
ENSG00000164587	11626.30788	14928.54812	14597.55255		
16145.58118	17160.46078	21714.29945	13717.46952		
18340.1138	-0.418916263	0.004939236	0.036494008	RPS14	
5	150442635	150449756	- 5099		
protein_coding	ribosomal protein S14 [Source:HGNC				
Symbol;Acc:HGNC:10387]	-	10049 16105	14929 16072	18778	
22130	107.7786022	139.2546401	135.6276266		
152.4004075	160.4807408	202.601398			
ENSG00000114416	4756.269449	4283.441222	4354.136347		
3521.046668	3676.458287	3339.076413	4464.615673		
3512.193789	0.345988843	0.004950078	0.036556446	FXR1	
3	180868141	180982753	+ 12054		
protein_coding	FMR1 autosomal homolog 1 [Source:HGNC				
Symbol;Acc:HGNC:4023]	-	4111 4621	4453 3505	4023	
3403	18.65138137	16.90202499	17.11291384		
14.05911721	14.54378491	13.17882824			
ENSG00000205531	3069.419326	3078.404739	2865.927158		
2298.474972	2532.30572	2135.12497	3004.583741		
2321.968554	0.371679626	0.004966638	0.036643471	NAP1L4	
11	2944431 2992377	- 5200	protein_coding		
nucleosome assembly protein 1 like 4 [Source:HGNC					
Symbol;Acc:HGNC:7640]	-	2653 3321	2931 2288	2771	
2176	27.90156857	28.15784993	26.1104845		
21.2742321	23.22158075	19.53446778			
ENSG00000169100	6650.215712	9344.594451	8576.269908		
10578.20868	10593.4637	11212.34974	8190.360024		
10794.67404	-0.398153209	0.004966656	0.036643471		
SLC25A6 X	1386152 1392724	- 2164	protein_coding	solute	
carrier family 25 member 6 [Source:HGNC	Symbol;Acc:HGNC:10992]				
5748	10081 8771	10530 11592	11427 145.2627347	-	
205.390483	187.7562101	235.2731305	233.431636		
246.5023176					
ENSG00000284977	23.13923351	1.853902282	5.866790497	0	
0	0	10.2866421	0	5.849883493	
0.004977444	1	AL160272.1	9	117759455	
117879988	+	17450	lincRNA novel transcript	-	
20	2	6	0	0	0.062680042
0.005053224	0.015927891	0	0	0	
ENSG00000070950	1892.789301	1516.492066	1495.053778		
1237.64037	1267.52365	1099.942597	1634.778382		
1201.702206	0.443424164	0.004980112	0.036725024	RAD18	
3	8775402 8963773	- 6983			

protein_coding	"RAD18, E3 ubiquitin protein ligase [Source:HGNC						
Symbol;Acc:HGNC:18278]	" -	1636	1636	1529	1232	1387	
	1121	12.81256171	10.32940285	10.14303442			
8.530409548	8.655517061	7.493929557					
ENSG00000167685	562.2833744	728.5835967	807.6614917				
1140.196282	993.3656868	898.7934158	699.5094876				
1010.785128	-0.530001382	0.004998398	0.036842097			ZNF444	
	19	56132599	56160893	+	7239		
protein_coding	zinc finger protein 444 [Source:HGNC						
Symbol;Acc:HGNC:16052]	zf-C2H2	486	786	826	1135	1087	
	916	3.671575011	4.787159827	5.285717236			
7.580860437	6.543491841	5.906945078					
ENSG00000154845	2246.819574	2046.708119	2018.175931				
1707.782977	1657.741818	1400.194546	2103.901208				
1588.573114	0.405104816	0.005013974	0.036939091			PPP4R1	
	18	9546791	9615240	-	8131	protein_coding	
protein	phosphatase 4 regulatory subunit 1 [Source:HGNC						
Symbol;Acc:HGNC:9320]	-	1942	2208	2064	1700	1814	
	1427	13.0617082	11.97261634	11.75894036			
10.10895299	9.721917233	8.192681055					
ENSG00000170222	171.230328	167.7781565	149.6031577				
239.0896168	303.4014793	267.8718368	162.8705474				
270.1209777	-0.730734524	0.005026255	0.037011738			ADPRM	
	17	10697594	10711233	+	1620		
protein_coding	"ADP-ribose/CDP-alcohol diphosphatase, manganese						
dependent [Source:HGNC	Symbol;Acc:HGNC:30925]"	-		148	181		
	153	238	332	273	4.99621839	4.926035284	
	4.375008207	7.103349101	8.930621161	7.86671956			
ENSG00000136444	1258.774303	1591.575109	1380.651364				
1747.966106	1832.289054	2154.749281	1410.333592				
1911.668147	-0.438288716	0.005040264	0.037097024			RSAD1	
	17	50478800	50485975	+	4198		
protein_coding	radical S-adenosyl methionine domain containing 1						
[Source:HGNC	Symbol;Acc:HGNC:25634]	-		1088	1717	1412	
	1740	2005	2196	14.17363269	18.03274407		
15.58097814	20.0404759	20.81280142	24.41945333				
ENSG00000119333	1272.657843	1780.673142	2135.511741				
1217.548805	1212.692057	1194.139287	1729.614242				
1208.126717	0.518229481	0.005053779	0.037178596			WDR34	
	9	128633661	128656787	-	2604		
protein_coding	WD repeat domain 34 [Source:HGNC						
Symbol;Acc:HGNC:28296]	-	1100	1921	2184	1212	1327	
	1217	23.10183183	32.5252275	38.85206529			
22.50416257	22.20693087	21.81703027					
ENSG00000183814	831.8554448	610.8608018	672.7253103				
468.1334515	524.5555696	457.2464321	705.1471857				
483.3118177	0.543745441	0.005065372	0.037245955			LIN9	
	1	226231149	226309869	-	4442		
protein_coding	lin-9 DREAM MuvB core complex component [Source:HGNC						
Symbol;Acc:HGNC:30830]	-	719	659	688	466	574	

466	8.852074267	6.540949835	7.174841968		
5.072342596	5.631083093	4.897262668			
ENSG00000177733	3052.064901	3846.847235	4084.263984		
4714.485596	4699.06749	5036.579261	3661.058706		
4816.710782	-0.39548458	0.005082615	0.037354774		
HNRNPA0 5	137745651	137754376	-	8726	
protein_coding	heterogeneous nuclear ribonucleoprotein A0				
[Source:HGNC Symbol;Acc:HGNC:5030]	-	2638	4150	4177	
4693	5142	5133	16.5331001	20.96847499	
22.17439209	26.00378473	25.67884355	27.46009855		
ENSG00000160714	2313.923351	2384.118334	2093.466409		
3096.11008	2865.864576	2798.426662	2263.836032		
2920.133772	-0.367250656	0.005089983	0.037390951	UBE2Q1	
1	154548577	154559028	-	4161	
protein_coding	ubiquitin conjugating enzyme E2 Q1				
[Source:HGNC Symbol;Acc:HGNC:15698]	-	2000	2572	2141	3082
2852	26.28615065	27.25255385	23.83534307	3136	
35.81262334	32.84255501	31.99615863			
ENSG00000114503	4114.155719	3599.35128	3101.576576		
4867.181486	4827.921732	4473.361553	3605.027858		
4722.82159	-0.389885868	0.00509787	0.037413623	NCBP2	
3	196935402	196942597	-	5114	
protein_coding	nuclear cap binding protein subunit 2				
[Source:HGNC Symbol;Acc:HGNC:7659]	-	3556	3883	3172	4845
4559	38.02732193	33.47654463	28.73259893	5283	
45.80725571	45.01720059	41.61547963			
ENSG00000138468	548.3998343	419.9088668	420.4533189		
279.2727457	339.0420145	282.5900696	462.9206733		
300.30161	0.622779485	0.005099795	0.037413623	SENP7	
3	101324205	101513241	-	6396	
protein_coding	SUMO specific peptidase 7				
[Source:HGNC Symbol;Acc:HGNC:30402]	-	474	453	430	278
288	4.052887972	3.122652844	3.114314418	371	
2.1015395	2.527691408	2.101987207			
ENSG00000114023	1492.480562	1455.313291	1202.692052		
1414.446137	2216.110203	2426.54598	1383.495302		
2019.034106	-0.545611	0.005100412	0.037413623		
FAM162A 3	122384176	122412334	+	3793	
protein_coding	family with sequence similarity 162 member A				
[Source:HGNC Symbol;Acc:HGNC:17865]	-	1290	1570	1230	
1408	2425	2473	18.59951331	18.24949149	
15.02189509	17.9482053	27.86040966	30.43598136		
ENSG00000101574	395.6808931	279.9392445	332.4514615		
189.865284	233.9481286	194.2806729	336.0238664		
206.0313618	0.703858931	0.005106125	0.037437572	METTL4	
18	2537525	2571509	-	5724	
protein_coding	methyltransferase like 4				
[Source:HGNC Symbol;Acc:HGNC:24726]	-	342	302	340	189
342	302	340	189	256	198
2.326169065	2.751577489	1.596479681	1.948942104		
1.614773453					

ENSG00000164418	135.3645161	42.63975248	73.33488121	
40.18312888	20.1049173	2.943646558	83.77971658	
21.07723091	1.990124801	0.005111686	0.037446974	GRIK2
6	101181257	102070083	+ 7585	
protein_coding	glutamate ionotropic receptor kainate type subunit 2			
[Source:HGNC Symbol;Acc:HGNC:4580]	-	117	46	75
40	22	3	0.843577503	0.267384486
0.458044987	0.25497971	0.126393777	0.018463401	
ENSG00000171951	57.84808379	63.03267758	92.89084954	
6.027469332	29.24351608	28.45525006	71.25720363	
21.24207849	1.743594114	0.005112307	0.037446974	SCG2
2	223596940	223602503	- 2719	
protein_coding	secretogranin II [Source:HGNC Symbol;Acc:HGNC:10575]			
-	50	68	95	6
1.005670034	1.102639797	1.618515465	0.106694801	
0.512860638	0.497891631			
ENSG00000169504	15443.12445	11975.28179	12248.88076	
9313.444696	11251.44281	9646.329772	13222.429	
10070.40576	0.392743305	0.005120199	0.037469917	CLIC4
1	24745357	24844324	+ 4495	
protein_coding	chloride intracellular channel 4 [Source:HGNC Symbol;Acc:HGNC:13518]			
-	13348	12919	12527	9271
9831	162.3982013	126.7164974	129.098096	12312
99.72363523	119.3596423	102.097248		
ENSG00000108344	4821.059303	5930.633399	6038.883018	
7875.893261	6565.169359	7489.61806	5596.858573	
7310.226893	-0.385082018	0.005120341	0.037469917	PSMD3
17	39980797	39997960	+ 4964	
protein_coding	"proteasome 26S subunit, non-ATPase 3 [Source:HGNC Symbol;Acc:HGNC:9560]"			
-	4167	6398	6176	7840
7633	45.90779571	56.82591284	57.63389491	7184
76.3634439	63.06568955	71.78100348		
ENSG00000154065	203.6252549	203.0022998	169.159126	
266.2132288	396.6151868	294.3646558	191.9288936	
319.0643572	-0.73429263	0.005133766	0.037550186	
ANKRD29	18	23598926	23662885	- 6391
protein_coding	ankyrin repeat domain 29 [Source:HGNC Symbol;Acc:HGNC:27110]			
-	176	219	173	265
300	1.506047131	1.510807928	1.253948619	434
2.004833326	2.959235373	2.191283018		
ENSG00000135541	949.8655358	687.7977465	563.2118877	
541.4676617	429.5141424	459.2088631	733.6250567	
476.7302224	0.621106235	0.005140375	0.037580538	AHI1
6	135283532	135497776	- 8705	
protein_coding	Abelson helper integration site 1 [Source:HGNC Symbol;Acc:HGNC:21575]			
-	821	742	576	539
468	5.15785459	3.758106539	3.065181275	470
2.993789123	2.352814458	2.509707529		
ENSG00000134014	1812.958946	1794.577409	1581.100039	
2228.154496	2434.522713	2128.256462	1729.545464	

2263.644557	-0.388471359	0.005162476	0.037724077	ELP3	
8	28089673	28191156	+ 5390		
protein_coding	elongator acetyltransferase complex subunit 3				
[Source:HGNC Symbol;Acc:HGNC:20696]	-	1567	1936	1617	
2218	2664	2169	15.89918798	15.83618424	
13.89708489	19.89637662	21.53793456	18.78524323		
ENSG00000132182	6.941770054	7.415609127	13.68917783	0	
0	0	9.348852336	0	5.718573539	
0.005182059	1	NUP210	3	13316235	13420309
-	8182	protein_coding	nucleoporin 210	[Source:HGNC	
Symbol;Acc:HGNC:30052]	-	6	8	14	0
0	0.040103889	0.043108655	0.079263093	0	
0	0				
ENSG00000059758	1340.918582	1281.973428	891.7521555		
1641.480815	1840.513793	1501.259745	1171.548055		
1661.084784	-0.504169137	0.005186196	0.037877981	CDK17	
12	96278261	96400560	-	6547	
protein_coding	cyclin dependent kinase 17 [Source:HGNC				
Symbol;Acc:HGNC:8750]	-	1159	1383	912	1634
1530	9.681347476	9.313518834	6.452900271	2014	
12.06732273	13.40527486	10.90925581			
ENSG00000213707	37.02277362	64.88657986	84.09066379		
9.041203998	26.50193645	19.62431039	62.00000576		
18.38915028	1.751969991	0.00518962	0.037877981		
HMGB1P10	22	26560526	26561088	+ 563	
processed_pseudogene	high mobility group box 1 pseudogene				
10 [Source:HGNC Symbol;Acc:HGNC:4994]	-	32	70	86	
9	29	20	3.108395676	5.481805258	
7.076076382	0.772921399	2.244647768	1.65831732		
ENSG00000108578	2346.318278	2231.171396	2094.444207		
1666.59527	1862.44643	1552.282952	2223.977961		
1693.774884	0.392611708	0.005190971	0.037877981	BLMH	
17	30248195	30292056	-	5127	
protein_coding	bleomycin hydrolase [Source:HGNC Symbol;Acc:HGNC:1059]				
-	2028	2407	2142	1659	
21.63213308	20.69887447	19.35345936	15.64531405		
17.32205687	14.40420181				
ENSG00000187257	1409.179321	1119.756978	1365.006589		
910.1478692	1049.111139	864.4508727	1297.980963		
941.236627	0.463000865	0.005198366	0.037911324	RSBN1L	
7	77696443	77783022	+ 7206		
protein_coding	round spermatid basic protein 1 like [Source:HGNC				
Symbol;Acc:HGNC:24765]	-	1218	1208	1396	
881	9.243740463	7.391058411	8.974156033	1148	
6.079042174	6.942345573	5.707260378			
ENSG00000111412	1384.883126	1305.147206	1206.603246		
1668.604427	2053.443145	1564.057538	1298.877859		
1762.035036	-0.44040482	0.0052005	0.037911324		
C12orf49	12	116710185	116738070	- 8664	
protein_coding	chromosome 12 open reading frame 49				

[Source:HGNC Symbol;Acc:HGNC:26128]	-	1197	1408	1234
1661	2247 1594	7.555625428	7.165032574	
6.597800384	9.269416686	11.30168573	8.588472102	
ENSG00000151611	232.5492968	279.9392445	156.4477466	
312.423827	436.8250214	383.6552681	222.9787626	
377.6347055	-0.760222036	0.00520425	0.037920576	MMAA
4	145599042	145660035	+ 8882	
protein_coding	methylmalonic aciduria (cobalamin deficiency) cblA			
type [Source:HGNC Symbol;Acc:HGNC:18871]	-	201	302	
160	311 478	391 1.237599147	1.499098371	
0.834471809	1.692976137	2.345177536	2.055000938	
ENSG00000134871	3996.145628	4411.360479	11638.73455	
2607.885064	1436.587727	2385.334928	6682.080218	
2143.26924	1.640521877	0.005235149	0.038127548	COL4A2
13	110305812	110513209	+ 19293	
protein_coding	collagen type IV alpha 2 chain [Source:HGNC			
Symbol;Acc:HGNC:2203]	-	3454 4759	11903 2596	1572
2431	9.790779766	10.87551667	28.57979604	
6.505881375	3.550678702	5.88208411		
ENSG00000164011	312.3796524	251.2037592	226.8492325	
582.6553688	350.0083331	375.805544	263.4775481	
436.1564153	-0.727980096	0.005240063	0.038145163	ZNF691
1	42846573	42852477	+ 2036	
protein_coding	zinc finger protein 691 [Source:HGNC			
Symbol;Acc:HGNC:28028]	zf-C2H2	270 271	232 580	383
383	7.252382533	5.868477924	5.278526024	
13.77372591	8.197465509	8.781466242		
ENSG00000181163	21006.95315	18364.756	19428.85453	
14478.98591	16816.84946	15322.66155	19600.18789	
15539.49898	0.334868139	0.005260587	0.038276341	NPM1
5	171387116	171411137	+ 3828	
protein_coding	nucleophosmin 1 [Source:HGNC Symbol;Acc:HGNC:7910]			
-	18157 19812	19870 14413	18402 15616	
259.3981517	228.1867108	240.452 182.0470618	209.4844038	
190.4337445				
ENSG00000164484	622.4453815	484.7954467	264.9833708	
559.5500697	983.3132281	817.3525277	457.4080663	
786.7386085	-0.783784421	0.005263799	0.038281493	
TMEM200A	6 130365734	130443063	+ 6137	
protein_coding	transmembrane protein 200A [Source:HGNC			
Symbol;Acc:HGNC:21075]	-	538 523	271 557	1076
833	4.794252078	3.757331587	2.045576018	
4.388340201	7.640376248	6.336288075		
ENSG00000121068	260.316377	403.2237463	753.8825789	
300.3688884	212.0154916	245.3038799	472.4742341	
252.5627533	0.90495711	0.005295108	0.038490877	TBX2
17	61399896	61409466	+ 6029	
protein_coding	T-box 2 [Source:HGNC Symbol;Acc:HGNC:11597]			T-box
225	435 771	299 232	250 2.040948034	
3.181104464	5.92395226	2.397878209	1.67687735	

1.935712081					
ENSG00000172301	1685.693162	1860.39094	2069.021449		
1314.992893	1479.539142	1435.518305	1871.70185		
1410.01678	0.408821259	0.005303181	0.038531242	COPRS	
17	31851864	31859337	-	1432	
protein_coding	coordinator of PRMT5 and differentiation stimulator				
[Source:HGNC Symbol;Acc:HGNC:28848]	-	1457	2007	2116	
1309	1619	1463	55.64309091	61.79286229	
68.45025986	44.19751431	49.26771591	47.69219862		
ENSG00000137154	21083.31262	24183.22831	22234.15819		
23825.58169	31772.16636	33463.37408	22500.23304		
29687.04071	-0.399881967	0.005309089	0.038555843	RPS6	
9	19375715	19380254	-	2714	
protein_coding	ribosomal protein S6 [Source:HGNC				
Symbol;Acc:HGNC:10429]	-	18223	26089	22739	23717
34104	367.2017519	423.8200979	388.1181692		34767
422.5237511	558.2335986	586.5992619			
ENSG00000254064	52.06327541	35.22414335	70.40148596		
166.7599849	89.55826799	110.8773537	52.56296824		
122.3985355	-1.219659085	0.005313314	0.038568203		
AC105206.2	8	22254576	22275162	-	515
antisense	uncharacterized LOC100507071 [Source:NCBI				
gene;Acc:100507071]	-	45	38	72	166
113	4.778592504	3.253196718	6.476311407		98
15.58483022	8.292346564	10.24276598			
ENSG00000198816	511.3770607	1001.107232	1065.800274		
1292.892172	1293.111727	1426.687365	859.4281888		
1337.563755	-0.636953235	0.005322607	0.038617319	ZNF358	
19	7515292	7521026	+	2069	protein_coding
finger protein 358	[Source:HGNC Symbol;Acc:HGNC:16838] zf-C2H2				
1080	1090	1287	1415	1454	442
23.014271	24.40441845	30.07594436	29.80262697		
32.80574854					
ENSG00000183935	74.04554725	75.08304241	136.8917783		
218.9980524	180.9442557	165.8254228	95.34012264		
188.5892436	-0.982341827	0.005341497	0.038735988	HTR7P1	
12	13000420	13004830	+	4411	
transcribed_processed_pseudogene	5-hydroxytryptamine receptor 7				
pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:30411]	-				64
81	140	218	198	169	0.793483004
0.809621288	1.470257602	2.389574925	1.95608053		
1.788527749					
ENSG00000235944	141.1493244	188.1710816	186.7594975		
322.4696093	254.9669058	282.5900696	172.0266345		
286.6755282	-0.734441564	0.005362833	0.038872274		
ZNF815P 7	5823160	5854365	+	2302	
transcribed_unprocessed_pseudogene	"zinc finger protein 815,				
pseudogene [Source:HGNC Symbol;Acc:HGNC:22029]"	-				122
191	321	279	288	2.89833929	3.887985858
3.843532022	6.742189107	5.281502403	5.840273751		

ENSG00000278384	245.2758753	169.6320588	210.2266595		
279.2727457	280.5549824	581.860803	208.3781978		
380.5628437	-0.870046432	0.005367779	0.038881649		
AL354822.1	GL000218.1	51867 54893	- 3027		
protein_coding	-	212 183	215 278		307
593	3.830170903	2.665462806	3.290246947		
4.440517556	4.419616154	9.14509683			
ENSG00000153214	767.065591	621.9842155	675.6587056		
451.0556217	486.1734548	509.2508546	688.2361707		
482.159977	0.512575161	0.005369213	0.038881649		
TMEM87B 2	112055223	112119318	+ 5367		
protein_coding	transmembrane protein 87B [Source:HGNC				
Symbol;Acc:HGNC:25913]	-	663 671	691 449		532
519	6.755797849	5.512198935	5.964154811		
4.044976121	4.319551286	4.514210415			
ENSG00000164970	594.6783013	696.1403068	673.7031087		
1074.898698	915.6875972	794.7845708	654.8405723		
928.4569552	-0.502984524	0.005379162	0.038935252		
FAM219A 9	34398184	34458570	- 3782		
protein_coding	family with sequence similarity 219 member A				
[Source:HGNC Symbol;Acc:HGNC:19920]	-		514 751		689
1070	1002 810	7.432523777	8.7549238		
8.439178117	13.67928726	11.54528863	9.997917073		
ENSG00000171051	18.51138681	68.59438442	20.53376674		
5.02289111	10.05245865	0 35.87984599	5.025116587		
2.830812761	0.00539691	0.039036806	FPR1 19		
51745172	51804110	- 2594	protein_coding		
formyl peptide receptor 1 [Source:HGNC					
Symbol;Acc:HGNC:3826]	-	16 74	21 5 11 0		
0.337322044	1.257753996	0.375017711	0.093196853		
0.184791211	0				
ENSG00000213693	54.37719876	132.5540131	72.3570828		
183.8378146	168.1502174	186.4309487	86.42943157		
179.4729936	-1.049154236	0.0053983	0.039036806		
SEC14L1P1	11 43897456	43899636	+ 2181		
processed_pseudogene		SEC14 like 1 pseudogene 1 [Source:HGNC			
Symbol;Acc:HGNC:44189]	-	47 143	74 183		184
190	1.178519859	2.890775264	1.571732053		
4.056921839	3.67638305	4.066717187			
ENSG00000136807	1034.323738	1154.981121	1046.244305		
1349.148552	1569.09741	1401.175762	1078.516388		
1439.807241	-0.416685511	0.005401007	0.03903792		CDK9
9	127785679	127790787	+ 3000		
protein_coding	cyclin dependent kinase 9 [Source:HGNC				
Symbol;Acc:HGNC:1780]	-	894 1246	1070 1343		1717
1428	16.29712426	18.31178774	16.52208982		
21.64491947	24.94064256	22.2204571			
ENSG00000254272	13.88354011	9.269511408	4.888992081		0
0	0 9.347347866	0	5.715325467		
0.005401473	1 AC087854.1	8	22492631		

22493044	+	414	processed_pseudogene	basic		
transcription factor 3-like (BTF3L) pseudogene	-			12	10	
5	0	0	0	1.585169172	1.064960787	
0.559463965		0	0	0		
ENSG00000102870		490.5517505	597.8834858	792.0167171		
846.8594412		912.9460175	1020.46414	626.8173178		
926.756533		-0.563228631	0.005409167	0.039076658		ZNF629
16		30778449	30787202	-	6087	
protein_coding		zinc finger protein 629 [Source:HGNC				
Symbol;Acc:HGNC:29008]		zf-C2H2	424	645	810	843
1040		3.809406053	4.671865926	6.164305769		999
6.696154867		7.151889309	7.975833392			
ENSG00000155329		410.7213949	383.7577723	302.1397106		
169.7737195		275.0718231	215.8674143	365.5396259		
220.2376523		0.72948123	0.005411479	0.039076658		
ZCCHC10	5	132996985	133026604	-	2559	
protein_coding		zinc finger CCHC-type containing 10 [Source:HGNC				
Symbol;Acc:HGNC:25954]		-	355	414	309	169
220		7.586697707	7.132865144	5.593590246		301
3.193137611		5.125719161	4.013270481			
ENSG00000164237		212.8809483	199.2944953	166.2257307		
322.4696093		329.9034157	279.646423	192.8003915		
310.6731494		-0.68932803	0.00541959	0.03911675		CMBL
5		10275875	10308026	-	3324	
protein_coding		carboxymethylenebutenolidase homolog [Source:HGNC				
Symbol;Acc:HGNC:25090]		-	184	215	170	321
285		3.027272534	2.851749688	2.369138018		361
4.66922964		4.732654325	4.002486546			
ENSG00000083817		195.5265232	189.0980327	164.2701339		
240.0941951		380.165709	300.251949	182.9648966		
306.8372843		-0.747076876	0.005428964	0.039165912		ZNF416
19		57571566	57578927	-	2561	
protein_coding		zinc finger protein 416 [Source:HGNC				
Symbol;Acc:HGNC:20645]		zf-C2H2	169	204	168	239
306		3.608874993	3.512000321	3.038800289		416
4.512212445		7.078518149	5.577735089			
ENSG00000243789		40.49365865	5.561706845	4.888992081		0
0		1.962431039	16.98145253	0.65414368		
4.704601617		0.005434743	1	JMJD7	15	41828085
41837581		+	1971	protein_coding	jumonji domain	
containing 7 [Source:HGNC		Symbol;Acc:HGNC:34397]		-		35
6		5	0	2	0.971127232	
0.134214236		0.117512979	0	0	0.047368475	
ENSG00000233429		115.6961676	62.10572644	122.224802		
20.09156444		36.5543951	55.92928461	100.0088987		
37.52508138		1.412324614	0.005444719	0.039261044		
HOTAIRM1		7	27095647	27100265	+	1496
antisense		"HOXA transcript antisense RNA, myeloid-				
specific 1 [Source:HGNC		Symbol;Acc:HGNC:37117]"		-	100	67
125		20	40	57	3.655637462	1.974591063

	3.870623021	0.646397426	1.165163833	1.778645091	
ENSG0000081026	726.5719323	561.7323914	710.8594485		
386.7626155	495.3120536	475.8895269	666.3879241		
452.654732	0.556988512	0.005455519	0.039320379	MAGI3	
1	113390749	113685923	+	8180	
protein_coding	"membrane associated guanylate kinase, WW and PDZ domain containing 3 [Source:HGNC Symbol;Acc:HGNC:29647]"				-
628	606	727	385	542	485
3.266278998	4.117025557	2.275666636	2.887384233		
2.767798507					
ENSG00000261008	37.02277362	36.15109449	43.02313031		
9.041203998	10.96631853	9.812155195	38.73233281		
9.939892574	1.961288359	0.005465044	0.039370468		
LINC01572	16	72283301	72665009	-	4752
lincRNA	long intergenic non-protein coding RNA 1572				
[Source:HGNC Symbol;Acc:HGNC:51385]	-	32	39		44
9	12	10	0.368271626	0.361844631	
0.428922373	0.091572969	0.110043251	0.098235759		
ENSG0000035928	2060.548744	2002.214464	1909.640307		
1591.251904	1509.696517	1521.865271	1990.801172		
1540.937897	0.369478745	0.005471428	0.039397886	RFC1	
4	39287456	39366375	-	6719	
protein_coding	replication factor C subunit 1 [Source:HGNC Symbol;Acc:HGNC:9969]				
1551	14.49619396	14.17369451	13.46480468	1652	
11.39860627	10.71430487	10.77589107			
ENSG00000111276	550.7137576	659.9892123	679.5698992		
412.8816493	480.6902955	410.1480871	630.0909564		
434.573344	0.536335142	0.00547591	0.039411599	CDKN1B	
12	12715058	12722371	+	2811	
protein_coding	cyclin dependent kinase inhibitor 1B [Source:HGNC Symbol;Acc:HGNC:1785]				
418	9.260636123	11.16742658	11.45318867	526	
7.069394094	8.154240124	6.94163017			
ENSG0000090863	3091.401598	2320.158706	4143.909688		
2487.335678	1689.726913	2302.912824	3185.156664		
2159.991805	0.560431989	0.005478568	0.03941217	GLG1	
16	74447427	74607144	-	14111	
protein_coding	golgi glycoprotein 1 [Source:HGNC Symbol;Acc:HGNC:4316]				
2347	10.35555488	7.820544935	13.91251406	1849	
8.483871169	5.710021152	7.764282589			
ENSG00000205726	1153.490791	1178.1549	1216.38123		
934.2577465	867.2530237	860.5260106	1182.67564		
887.3455936	0.414685898	0.005481373	0.039413808	ITSN1	
21	33642400	33899861	+	21748	
protein_coding	intersectin 1 [Source:HGNC Symbol;Acc:HGNC:6183]				
-	997	1271	1244	930	949
2.507093591	2.576678206	2.649741525	2.067591989		
1.901540089	1.882462376				

ENSG00000259207	109.9113592	88.06035838	129.0693909	
45.20601999	31.98509571	63.77900877	109.0137028	
46.99004149	1.215184922	0.005484672	0.039418982	ITGB3
17	47253846	47311816	+ 4394	
protein_coding	integrin subunit beta 3 [Source:HGNC			
Symbol;Acc:HGNC:6156]	-	95 95	132 45	35
65	1.182383241	0.95322958	1.391606134	
0.495169262	0.347109572	0.690556695		
ENSG00000101773	2103.356326	1608.260229	1538.076909	
1142.205438	1414.65509	1233.387908	1749.897821	
1263.416146	0.469211432	0.00550803	0.039551541	RBBP8
18	22798261	23026488	+ 5091	
protein_coding	"RB binding protein 8, endonuclease [Source:HGNC			
Symbol;Acc:HGNC:9891]"	-	1818 1735	1573 1137	1548
1257	19.52924683	15.02554869	14.31291465	
10.79837945	13.25032275	11.52598942		
ENSG00000141551	1970.305734	2901.357071	2942.195434	
3843.516277	3195.767991	3764.923948	2604.619413	
3601.402739	-0.466981109	0.00550829	0.039551541	CSNK1D
17	82239023	82273731	- 11024	
protein_coding	casein kinase 1 delta [Source:HGNC			
Symbol;Acc:HGNC:2452]	-	1703 3130	3009 3826	3497
3837	8.448316123	12.51811944	12.64402771	
16.78058039	13.82340479	16.24795211		
ENSG00000133639	1874.277915	1616.60279	1131.312767	
2253.268952	2421.728675	1928.088496	1540.731157	
2201.028708	-0.51507077	0.005522128	0.039632285	BTG1
12	92140278	92145897	- 4854	
protein_coding	BTG anti-proliferation factor 1 [Source:HGNC			
Symbol;Acc:HGNC:1130]	-	1620 1744	1157 2243	2650
1965	18.25197878	15.8409297	11.04170253	
22.34244606	23.79056191	18.89769427		
ENSG0000014164	468.5694787	830.5482222	780.2831361	
942.2943723	1022.609203	1191.195641	693.1336123	
1052.033072	-0.600599346	0.005524938	0.03963385	ZC3H3
8	143437655	143541453	- 3731	
protein_coding	zinc finger CCCH-type containing 3 [Source:HGNC			
Symbol;Acc:HGNC:28972]	-	405 896	798 938	1119
1214	5.936418187	10.58806792	9.907865403	
12.15566732	13.06963428	15.18935994		
ENSG00000075275	657.1542318	627.5459224	1050.155499	
530.4173012	429.5141424	548.4994754	778.2852177	
502.8103063	0.630866441	0.005542058	0.03973801	CELSR1
22	46360834	46537170	- 12806	
protein_coding	cadherin EGF LAG seven-pass G-type receptor 1			
[Source:HGNC Symbol;Acc:HGNC:1850]	-		568 677	1074
528	470 559	2.425657902	2.33082211	
3.885019828	1.993524794	1.599347951	2.037719241	
ENSG00000115568	736.9845874	859.2837076	883.9297682	
1359.194334	986.0548077	1138.210003	826.7326877	

1161.153048	-0.489252721	0.005546105	0.039748389	ZNF142
2	218637916	218659655	- 6994	
protein_coding	zinc finger protein 142 [Source:HGNC			
Symbol;Acc:HGNC:12927]	zf-C2H2	637 927	904 1353	1079
1160	4.980907965	5.843702043	5.987496304	
9.353483514	6.722865372	7.74244978		
ENSG00000101298	122.6379376	138.11572	136.8917783	
269.2269635	213.8432113	203.1116125	132.5484786	
228.7272624	-0.785852673	0.005556408	0.039803566	SNPH
20	1266280	1309328 + 5709	protein_coding	
syntaphilin [Source:HGNC	Symbol;Acc:HGNC:15931]			- 106 149
140	268 234	207	1.015407893	1.150694887
1.135979381	2.269739248	1.786135541	1.692607802	
ENSG00000131791	973.0047693	720.2410364	697.1702707	
561.5592261	551.0575061	542.6121823	796.8053588	
551.7429715	0.529217884	0.005573945	0.039910494	PRKAB2
1	147155106	147172550	- 5460	
protein_coding	protein kinase AMP-activated non-catalytic subunit			
beta 2 [Source:HGNC	Symbol;Acc:HGNC:9379]			- 841 777
713	559 603	553	8.423606399	6.274257436
6.049219493	4.950173053	4.81263879	4.728011502	
ENSG00000141456	2091.78671	2733.578914	2544.231479	
3893.745189	2849.415098	3268.428895	2456.532368	
3337.196394	-0.441560653	0.005587782	0.039990838	PELP1
17	4669774	4704337 - 6577		
protein_coding	"proline, glutamate and leucine rich protein 1			
[Source:HGNC	Symbol;Acc:HGNC:30134]"			- 1808 2949 2602
3876	3118 3331	15.03367983	19.76882645	
18.32660022	28.49424427	20.65888446	23.64246891	
ENSG00000006062	521.7897157	977.0065025	1260.382158	
691.1498168	424.0309831	517.1005788	919.7261255	
544.0937929	0.758477069	0.00559769	0.040043	
MAP3K14 17	45263119	45317145	- 5784	
protein_coding	mitogen-activated protein kinase kinase kinase 14			
[Source:HGNC	Symbol;Acc:HGNC:6853]			- 451 1054 1289
688	464 527	4.264253065	8.034267447	
10.32350301	5.751238402	3.495813813	4.253323022	
ENSG00000181544	268.4151088	228.0299806	243.4718056	
165.7554066	118.8017841	150.1259745	246.638965	
144.8943884	0.767603163	0.005612211	0.040128099	FANCB
X	14835961	14873069	- 3593	
protein_coding	FA complementation group B [Source:HGNC			
Symbol;Acc:HGNC:3583]	-			232 246 249 165 130
153	3.531225731	3.018643651	3.210292363	
2.220383255	1.576684263	1.987834618		
ENSG00000154473	4330.507552	3864.459306	4031.46287	
3022.77587	3152.816577	3419.536085	4075.476576	
3198.376178	0.349482358	0.005621312	0.040174377	BUB3
10	123154277	123170467	+ 8300	
protein_coding	"BUB3, mitotic checkpoint protein [Source:HGNC			

Symbol;Acc:HGNC:1151]" -	3743	4169	4123	3009	3450
3485	24.66246304	22.14561578	23.01111687		
17.52852256	18.11338426	19.60066138			
ENSG00000144560	1367.528701	1501.660848	1477.453407		
1774.08514	2072.634202	1854.497332	1448.880985		
1900.405558	-0.391231947	0.005633272	0.040241043		VGLL4
3	11556070	11771350	-	7236	
protein_coding	vestigial like family member 4				
[Source:HGNC					
Symbol;Acc:HGNC:28966] -	1182	1620	1511	1766	2268
1890	8.933335221	9.87075595	9.673159791		
11.8003084	13.6585026	12.19296373			
ENSG00000175471	575.0099528	538.5586128	564.1896861		
450.0510435	369.1993905	254.1348195	559.2527506		
357.7950845	0.644343496	0.0056394	0.040265999		MCTP1
5	94703741	95284575	-	12089	
protein_coding	multiple C2 and transmembrane domain containing 1				
[Source:HGNC					
Symbol;Acc:HGNC:26183]	-	497	581	577	
448	404	259	2.248333461	2.11894514	
2.210995667	1.791797197	1.456295761	1.000127623		
ENSG00000139291	671.0377719	561.7323914	644.3691563		
416.8999621	486.1734548	390.5237767	625.7131065		
431.1990646	0.536243162	0.005651365	0.040332594		TMEM19
12	71686087	71705046	+	6488	
protein_coding	transmembrane protein 19				
[Source:HGNC					
Symbol;Acc:HGNC:25605]	-	580	606	659	415
398	4.888908004	4.118089119	4.705188525		532
3.092704826	3.573216978	2.863638988			
ENSG00000115963	3333.206588	3748.590414	1577.188845		
5348.374454	8052.01938	5156.287555	2886.328616		
6185.560463	-1.099703867	0.005665433	0.040414128		RND3
2	150468195	150539011	-	3594	
protein_coding	Rho family GTPase 3				
[Source:HGNC					
Symbol;Acc:HGNC:671]	2881	4044	1613	5324	8811
43.83892523	49.60974927	20.79020398	71.62443193		
106.8330743	68.25597637				
ENSG00000268902	3.470885027	0	9.777984162	19.08698622	
10.05245865	79.47845708	4.41628973	36.20596732		
-3.036344894	0.005671599	0.04043924	CSAG2	X	
152708261	152714549	-	1083	protein_coding	
CSAG	family member 2				
[Source:HGNC					
Symbol;Acc:HGNC:16847]	-	3	0	10	19
0.151491237	0	0.427734223	0.848254868	0.442611635	
3.491424042					
ENSG00000144597	1014.65539	1167.958437	920.1083096		
1432.528545	1560.872671	1254.974649	1034.240712		
1416.125288	-0.453255974	0.005681052	0.040487758		EAF1
3	15427355	15450635	+	5152	
protein_coding	ELL associated factor 1				
[Source:HGNC					
Symbol;Acc:HGNC:20907]	-	877	1260	941	1426
1279	9.309330561	10.78272797	8.46089343		1708

13.38273529	14.44676505	11.58886026			
ENSG00000172339	233.7062585	183.5363259	264.0055724		
110.5036044	159.9254785	105.9712761	227.0827189		
125.4667864	0.854278425	0.005712682	0.040694209	ALG14	
1	94974407	95072945	-	9633	
protein_coding	"ALG14, UDP-N-acetylglucosaminyltransferase subunit [Source:HGNC Symbol;Acc:HGNC:28287]"				
			202	198	270
110	175	108	1.146791649	0.906228232	
1.298388498	0.552118553	0.791653409	0.523369284		
ENSG00000167895	5.784808379	5.561706845	16.62257307	0	
0	0	9.323029433	0	5.714838671	
0.005730769	1	TMC8	17	78130770	78142968
+	5459	protein_coding	transmembrane	channel like 8	
[Source:HGNC Symbol;Acc:HGNC:20474]			-	5	6
0	0	0	0.050090068	0.04845874	17
0.144257461	0	0	0		
ENSG00000103599	109.9113592	95.47596751	87.02405904		
196.8973315	131.5958223	228.623216	97.47046191		
185.7054566	-0.930674042	0.005747863	0.0408929	IQCH	
15	67254800	67502260	+	7108	
protein_coding	IQ motif containing H [Source:HGNC Symbol;Acc:HGNC:25721]				
		95	103	89	196
233	0.730921773	0.638886577	0.58002277		144
1.333244709	0.882823064	1.530222339			
ENSG00000249839	24.29619519	28.73548537	15.64477466		
1.004578222	1.827719755	5.887293117	22.89215174		
2.906530365	2.97928433	0.005748245	0.0408929		
AC011330.1	15	43663654	43684339	-	3235
	unprocessed_pseudogene histidine acid phosphatase domain containing 2A (HISPPD2A) pseudogene				
			-	21	31
1	2	6	0.355009294	0.422494799	16
0.229112167	0.014946067	0.026941037	0.08658108		
ENSG00000072682	389.8960847	291.9896094	483.0324176		
265.2086506	163.5809181	256.0972506	388.3060372		
228.2956064	0.766843966	0.0057486	0.0408929	P4HA2	
5	132191838	132295315	-	8502	
protein_coding	prolyl 4-hydroxylase subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC:8547]				
		337	315	494	264
261	2.167721639	1.633516069	2.691586269		179
1.50135724	0.91746716	1.433063526			
ENSG00000123119	252.2176453	195.5866907	256.183185		
123.5631213	125.1988032	157.9756986	234.662507		
135.5792077	0.790857434	0.005757131	0.040930483	NECAB1	
8	90791550	90959408	+	6408	
protein_coding	N-terminal EF-hand calcium binding protein 1 [Source:HGNC Symbol;Acc:HGNC:20983]				
			-	218	211
123	137	161	1.86049584	1.451756938	262
1.894005536	0.928076604	0.93165831	1.172868733		
ENSG00000236104	253.374607	410.6393554	496.7215954		
500.2799546	685.3949081	703.5315275	386.9118526		

629.7354634	-0.70121416	0.005759238	0.040930483	ZBTB22
6	33314406	33317942	- 2728	
protein_coding	zinc finger and BTB domain containing 22 [Source:HGNC			
Symbol;Acc:HGNC:13085]	-	219 443	508 498	750
717	4.390302668	7.159675156	8.626245266	
8.826452599	11.98051522	12.26932938		
ENSG00000176396	657.1542318	789.762372	650.2359467	
916.1753385	1116.73677	905.6619245	699.0508502	
979.5246777	-0.486400624	0.005774285	0.041009034	EID2
19	39538705	39540333	- 1629	
protein_coding	EP300 interacting inhibitor of differentiation 2			
[Source:HGNC Symbol;Acc:HGNC:28292]	-	568	852	665
912	1222 923	19.06873855	23.05963711	
18.91050021	27.06917193	32.68953323	26.45005945	
ENSG00000172572	183.9569064	64.88657986	115.3802131	
63.28842799	52.09001301	22.56795695	121.4078998	
45.98213265	1.398129219	0.00577776	0.041009034	PDE3A
12	20369245	20684381	+ 8398	
protein_coding	phosphodiesterase 3A [Source:HGNC			
Symbol;Acc:HGNC:8778]	-	159 70	118 63	57
23	1.035418611	0.367498971	0.650891489	
0.362715317	0.295772358	0.127849196		
ENSG00000143167	10.41265508	25.95463194	35.20074298	
6.027469332	0 0	23.85601	2.009156444	
3.59112016	0.005778338	0.041009034	GPA33 1	
167052836	167166479	- 3200	protein_coding	
glycoprotein A33 [Source:HGNC Symbol;Acc:HGNC:4445]	-			9
28	36 6	0 0	0.153810946	
0.385782045	0.521140684	0.090657239	0 0	
ENSG00000099377	264.9442237	185.3902282	116.3580115	
315.4375617	341.7835942	345.3878629	188.8974878	
334.2030062	-0.825999283	0.005789535	0.041069432	HSD3B7
16	30985207	30989152	+ 2495	
protein_coding	"hydroxy-delta-5-steroid dehydrogenase, 3 beta- and			
steroid delta-isomerase 7 [Source:HGNC Symbol;Acc:HGNC:18324]"	-			
229	200 119	314 374	352 5.019490598	
3.534218563	2.209422982	6.084996246	6.532202657	
6.585945755				
ENSG00000138698	1293.483153	903.7773623	931.8418906	
701.195599	792.3165137	692.7381567	1043.034135	
728.7500898	0.516200329	0.005825207	0.041303311	
RAP1GDS1	4 98261384	98443861	+ 5424	
protein_coding	Rap1 GTPase-GDP dissociation stimulator 1			
[Source:HGNC Symbol;Acc:HGNC:9859]	-	1118	975	953
698	867 706	11.27241153	7.925358069	
8.139086716	6.222099592	6.965591706	6.076185948	
ENSG00000108953	16637.1089	17305.25085	18537.10237	
12380.42201	15426.86859	13456.38963	17493.15404	
13754.56008	0.346867894	0.005838319	0.041377089	YWHAE
17	1344272 1400378	- 3847	protein_coding	

tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein epsilon [Source:HGNC Symbol;Acc:HGNC:12851]	-	14380	18669	
18958	12324	16881	13714	204.423779
228.2825885	154.8926178	191.2205581	166.4132854	
ENSG00000085063	4752.798564	4717.254356	3484.873555	
4814.943418	7867.419685	5666.519625	4318.308825	
6116.294243	-0.502333173	0.005848915	0.041432975	CD59
11	33703010	33736491	-	10358
protein_coding	CD59 molecule (CD59 blood group) [Source:HGNC Symbol;Acc:HGNC:1689]	-	4108	5089
5775	21.68948504	21.66159851	15.93911648	8609
22.37343872	36.21891189	26.02688048		
ENSG00000234616	953.3364208	1044.673936	1309.272079	
1526.958897	1395.464033	1624.8929	1102.427479	
1515.771944	-0.458816334	0.005872038	0.041577512	JRK
8	142657460	142681968	-	11229
protein_coding	Jrk helix-turn-helix protein [Source:HGNC Symbol;Acc:HGNC:6199]	-	824	1127
1656	4.013107954	4.425035836	5.523850943	1527
6.544910659	5.92593049	6.884387168		
ENSG00000260804	623.6023432	536.7047106	694.2368755	
384.753459	476.1209961	405.2420095	618.1813097	
422.0388216	0.550006455	0.005880209	0.04161609	
LINC01963	2	216217045	216220192	+
lincRNA	long intergenic non-protein coding RNA 1963 [Source:HGNC Symbol;Acc:HGNC:25283]	-	539	579
383	521	413	9.363727235	8.10919601
10.4478296	5.882545117	7.212097634	6.124369201	
ENSG00000127990	1152.333829	979.7873559	1012.999159	
701.195599	868.1668835	697.6442343	1048.373448	
755.6689056	0.471515506	0.005891376	0.041654229	SGCE
7	94524204	94656572	-	20884
protein_coding	sarcoglycan epsilon [Source:HGNC Symbol;Acc:HGNC:10808]	-	996	1057
711	2.608196853	2.231491622	2.297992075	950
1.616005947	1.982296063	1.589285613		
ENSG00000067141	1084.07309	1031.69662	1370.873379	
720.2825852	818.8184502	935.0983901	1162.214363	
824.7331418	0.494927372	0.005892255	0.041654229	NEO1
15	73051710	73305206	+	8117
protein_coding	neogenin 1 [Source:HGNC Symbol;Acc:HGNC:7754]	-	937	1113
937	1113	1402	717	896
6.045518804	8.001196263	4.270953334	4.810287804	
5.480792882				
ENSG00000143819	575.0099528	487.5763001	711.837247	
391.7855066	368.2855306	427.8099665	591.4745	
395.9603346	0.579024451	0.005893772	0.041654229	EPHX1
1	225810092	225845563	+	2508
protein_coding	epoxide hydrolase 1 [Source:HGNC Symbol;Acc:HGNC:3401]	-	497	526
-	497	526	728	390
			403	436

10.83736173	9.246815024	13.44640856	7.518622696	
7.002225807	8.115307733			
ENSG00000112996	1734.285552	1778.819239	1313.183273	
2149.797395	2247.181439	2093.913919	1608.762688	
2163.630917	-0.42768422	0.005907213	0.04172993	MRPS30
5	44808925	44820428	+ 6202	
protein_coding	mitochondrial ribosomal protein S30	[Source:HGNC		
Symbol;Acc:HGNC:8769]	-	1499 1919	1343 2140	2459
2134	13.21796458	13.64197253	10.03105719	
16.68334873	17.27767755	16.06233536		
ENSG00000149084	1778.250096	1485.902679	1554.699482	
1140.196282	1321.441383	1142.134865	1606.284085	
1201.25751	0.418577482	0.005916112	0.041773487	
HSD17B12	11 43680558	43856617	+	7838
protein_coding	hydroxysteroid 17-beta dehydrogenase 12			
[Source:HGNC Symbol;Acc:HGNC:18646]	-	1537 1603		1590
1135 1446 1164	10.7241609	9.017003146		
9.397110224	7.0015117	8.039362867	6.932561916	
ENSG00000172115	4151.178492	4342.766095	4036.351862	
3485.88643	3240.547125	3219.368119	4176.765483	
3315.267225	0.333332173	0.005933023	0.041873556	CYCS
7	25120091	25125361	- 4457	
protein_coding	"cytochrome c, somatic [Source:HGNC			
Symbol;Acc:HGNC:19986]"	-	3588 4685	4128 3470	3546
3281	44.0255219	46.34479005	42.90417055	
37.64333193	34.67006812	34.36446857		
ENSG00000171453	963.7490759	1078.971128	899.5745429	
1321.020362	1355.254198	1258.899511	980.7649156	
1311.724691	-0.419293049	0.005952187	0.041989424	POLR1C
6	43509702	43562419	+ 5550	
protein_coding	RNA polymerase I and III subunit C [Source:HGNC			
Symbol;Acc:HGNC:20194]	-	833 1164	920 1315	1483
1283	8.208177342	9.246853034	7.678869731	
11.45602588	11.6441225	10.79144767		
ENSG00000226419	273.0429555	342.9719221	312.8954932	
431.9686355	436.8250214	535.7436736	309.6367903	
468.1791102	-0.595202147	0.005957554	0.041995908	
SLC16A1-AS1	1 112956415	113047055	+	10138
antisense	SLC16A1 antisense RNA 1 [Source:HGNC			
Symbol;Acc:HGNC:49445]	-	236 370	320 430	478
546	1.273076287	1.609101335	1.46217767	
2.050772028	2.054632755	2.51412225		
ENSG00000162772	77.51643227	127.9192574	71.37928438	
156.7142026	231.206549	160.9193452	92.27165803	
182.9466989	-0.985453225	0.0059586	0.041995908	ATF3
1	212565334	212620777	+ 4040	
protein_coding	activating transcription factor 3 [Source:HGNC			
Symbol;Acc:HGNC:785]	TF_bZIP 67 138	73 156		253
164	0.906960035	1.506023259	0.837035641	
1.867000567	2.728963668	1.894996965		

ENSG00000169064	21.98227184	3.707804563	10.75578258	0
0	0.981215519	12.14861966	0.32707184	
5.129221278	0.005963694	1	ZBBX	3
167381346	-	3972	protein_coding	zinc finger B-
box domain containing [Source:HGNC Symbol;Acc:HGNC:26245]	-			
19	4	11	0	0
0.044400178	0.128287961	0	0	0.011752677
ENSG00000143333	54.37719876	103.8185278	51.82331606	
106.4852915	184.5996952	166.8066383	70.00634753	
152.6305417	-1.12150163	0.005965739	0.042026848	RGS16
1	182598623	182604408	-	2427
protein_coding	regulator of G protein signaling 16 [Source:HGNC			
Symbol;Acc:HGNC:9997]	-	47	112	53
170	1.059065436	2.034614824	1.011599367	106
2.111724728	3.626938494	3.269830051		202
ENSG00000137962	1847.667796	854.6489519	1246.692981	
867.9555838	809.6798514	875.2442434	1316.336576	
850.9598929	0.628543044	0.005992736	0.042197582	
ARHGAP29	1	94148988	94275068	-
protein_coding	Rho GTPase activating protein 29 [Source:HGNC			15524
Symbol;Acc:HGNC:30207]	-	1597	922	1275
892	5.625951641	2.618552255	3.804600026	864
2.690985297	2.487073875	2.682299423		886
ENSG00000126767	903.5870687	1038.185278	1030.599531	
1319.011206	1304.078045	1323.659736	990.7906257	
1315.582995	-0.408488076	0.006000318	0.042231522	ELK1
X	47635521	47650604	-	3398
protein_coding	"ELK1, ETS transcription factor [Source:HGNC			
Symbol;Acc:HGNC:3321]"	ETS	781	1120	1054
1349	12.56962647	14.53210764	14.36877328	1313
18.68282596	18.30034159	18.5325257		1427
ENSG00000147614	24.29619519	19.46597396	12.71137941	
103.4715569	31.98509571	52.98563805	18.82451619	
62.81409688	-1.741214104	0.006011805	0.042292897	
ATP6V0D2	8	85987323	86154228	+
protein_coding	ATPase H+ transporting V0 subunit d2			3010
[Source:HGNC Symbol;Acc:HGNC:18266]	-		21	21
103	35	54	0.381546533	0.307600302
0.200068775	1.654519712	0.506710783	0.837477793	
ENSG00000171227	8.09873173	15.75816939	3.911193665	0
0	0	9.256031596	0	5.704697311
0.006018759	1	TMEM37	2	119429901
+	2292	protein_coding	transmembrane protein 37	119438520
[Source:HGNC Symbol;Acc:HGNC:18216]	-		7	17
0	0	0	0.167023715	0.327015446
0.080844008	0	0	0	
ENSG00000198917	688.3921971	861.1376098	913.2637207	
1217.548805	1068.302197	1120.548123	820.9311759	
1135.466375	-0.466965053	0.00602717	0.042381486	SPOUT1
9	128819651	128829821	-	4593

protein_coding	SPOUT domain containing methyltransferase 1					
[Source:HGNC Symbol;Acc:HGNC:26933]	-	595	929		934	
1212	1169	1142	7.08459834	8.917707564		
9.42004303	12.75872835	11.09115216	11.60688534			
ENSG0000022267	2083.687978	1951.232151	1885.195346			
1676.641053	1459.434224	1349.171339	1973.371825			
1495.082205	0.400362025	0.006034092	0.042388798		FHL1	
X	136146702	136211359	+	5997		
protein_coding	four and a half LIM domains 1 [Source:HGNC					
Symbol;Acc:HGNC:3702]	-	1801	2105	1928	1669	
1375	16.42382757	15.47576083	14.89276843		1597	
13.45623318	11.60458102	10.70322574				
ENSG00000139572	11.56961676	24.10072966	10.75578258			
74.33878843	49.34843338	37.28618974	15.47537633			
53.65780385	-1.786460252	0.006034928	0.042388798		GPR84	
12	54362445	54364487	-	2043		
protein_coding	G protein-coupled receptor 84 [Source:HGNC					
Symbol;Acc:HGNC:4535]	-	10	26	11	74	
38	0.267686424	0.561098282	0.249417415		54	
1.751316219	1.151818344	0.868282935				
ENSG00000198900	4079.446869	3989.59771	4507.650699			
3477.849805	3360.262769	2998.594627	4192.231759			
3278.9024	0.35452473	0.006036529	0.042388798		TOP1	
20	41028818	41124487	+	3738		
protein_coding	DNA topoisomerase I [Source:HGNC					
Symbol;Acc:HGNC:11986]	-	3526	4304	4610	3462	
3056	51.58669723	50.76529609	57.1299816		3677	
44.7805046	42.86599713	38.16454497				
ENSG00000166037	2221.366417	1863.171793	1876.395161			
1591.251904	1580.977588	1246.14371	1986.97779			
1472.791067	0.431636208	0.006084414	0.042705434		CEP57	
11	95789965	95832693	+	7101		
protein_coding	centrosomal protein 57 [Source:HGNC					
Symbol;Acc:HGNC:30794]	-	1920	2010	1919	1584	
1270	14.78687593	12.47988268	12.51866212		1730	
10.78541551	10.61659348	8.348918933				
ENSG00000189159	2456.229638	2738.21367	3425.227852			
1776.094297	2125.638075	2383.372497	2873.22372			
2095.034956	0.455842268	0.006094707	0.042758044		JPT1	
17	75135248	75168281	-	3414		
protein_coding	Jupiter microtubule associated homolog 1 [Source:HGNC					
Symbol;Acc:HGNC:14569]	-	2123	2954	3503	1768	
2429	34.00800769	38.14880446	47.53123256		2326	
25.03917182	29.68963041	33.21314747				
ENSG00000172716	1841.882988	1683.343272	1680.835477			
1289.878437	1274.834529	1418.837641	1735.353912			
1327.850202	0.385944892	0.006098836	0.04276739		SLFN11	
17	35350305	35373701	-	5982		
protein_coding	schlafen family member 11 [Source:HGNC					
Symbol;Acc:HGNC:26633]	-	1592	1816	1719	1284	
					1395	

1446	14.5543015	13.38453826	13.31165103	
10.37814733	10.16216862	11.28412582		
ENSG00000259469	15.04050178	4.634755704	7.822387329	0
0	0	9.165881606	0	5.685769156
0.00610609	1	AC084757.2	15	48729080
48729844	-	540	lincRNA novel transcript	-
13	5	8	0	0
0.408234968	0.686275797	0	0	1.316571062
ENSG00000115268	22184.74013	19059.96936	19873.75281	
23826.58627	26572.30366	26174.9052	20372.82077	
25524.59837	-0.325295311	0.006106224	0.042799562	RPS15
19	1438358	1440494 +	2137	protein_coding
ribosomal protein S15 [Source:HGNC Symbol;Acc:HGNC:10388]				-
19175	20562	20325	23718	29077
424.2235663	440.583763	536.6297665	592.9303379	
582.7230838				
ENSG00000133110	118.0100909	114.9419415	27.37835565	
224.0209435	271.4163836	130.5016641	86.77679601	
208.6463304	-1.267631101	0.006113971	0.042817394	POSTN
13	37562583	37598844	-	5464
protein_coding	periostin [Source:HGNC Symbol;Acc:HGNC:16953]			-
102	124	28	223	297
1.000564183	0.2373831	1.973310328	2.368668892	
1.136284248				
ENSG00000141424	2642.500467	2351.675044	2200.046436	
1832.350677	1748.213945	1944.76916	2398.073983	
1841.777927	0.380560595	0.00611437	0.042817394	
SLC39A6	18	36108532	36129385	-
protein_coding	solute carrier family 39 member 6 [Source:HGNC Symbol;Acc:HGNC:18607]			-
1982	33.92399794	30.37880184	28.30747874	1913
23.95202666	22.64069653	25.12846163		
ENSG00000165819	1268.029997	1104.92576	1339.58383	
899.0975087	778.6086156	1017.520494	1237.513196	
898.4088727	0.462045318	0.006141278	0.042986135	METTL3
14	21498133	21511375	-	5894
protein_coding	methyltransferase like 3 [Source:HGNC Symbol;Acc:HGNC:17563]			-
1037	10.16939544	8.91661637	10.76745069	852
7.341995607	6.299238633	8.213242782		
ENSG00000104450	606.2479181	527.4351991	592.5458402	
494.2524852	296.0906003	318.8950438	575.4096525	
369.7460431	0.638456442	0.006146341	0.043001882	SPAG1
8	100157906	100259278	+	5055
protein_coding	sperm associated antigen 1 [Source:HGNC Symbol;Acc:HGNC:11212]			-
325	5.66897889	4.96278047	5.553335605	324
4.705926711	2.793074038	3.001291905		
ENSG00000155561	3305.439508	3038.54584	3415.449868	
2888.162388	2302.013031	2205.772488	3253.145072	

2465.315969	0.400109507	0.006151522	0.043018445	NUP205
7	135557919	135648757	+ 7619	
protein_coding	nucleoporin 205	[Source:HGNC	Symbol;Acc:HGNC:18658]	
-	2857 3278	3493 2875	2519 2248	
20.50722893	18.96902171	21.23748416	18.24488339	
14.40750542	13.77350177			
ENSG00000231942	0 0	0 24.10987733	10.96631853	
0	0 11.69206529	-5.966794994	0.006163285	
1	HNRNPA1P36	8 81807772	81808726	
+	955 processed_pseudogene	heterogeneous nuclear		
ribonucleoprotein A1	pseudogene 36	[Source:HGNC		
Symbol;Acc:HGNC:48765]	- 0 0	0 24 12		
0	0 0	0 1.21509179	0.547565998	
0				
ENSG00000182810	484.7669421	549.6820265	445.8760778	
782.566435	777.6947557	589.7105272	493.4416821	
716.6572393	-0.538181671	0.006187728	0.043251849	DDX28
16	68021274	68023442	- 2169	
protein_coding	DEAD-box helicase 28	[Source:HGNC		
Symbol;Acc:HGNC:17330]	- 419 593	456 779	851	
601	10.56450575	12.05394205	9.738851562	
17.36517331	17.09734227	12.93483687		
ENSG00000216867	13.88354011	4.634755704	8.800185745	0
0	0 9.106160519	0 5.676832568		
0.006188344	1 RPL22P12	2 110633947		
110634333	+ 387 processed_pseudogene	ribosomal		
protein L22	pseudogene 12	[Source:HGNC	Symbol;Acc:HGNC:36345]	-
12	5 9 0 0	0 1.69576237		
0.569630188	1.077293403	0 0 0		
ENSG00000040531	738.1415491	704.482867	766.5939583	
1070.880385	922.9984762	1000.83983	736.4061248	
998.2395636	-0.438798351	0.006196392	0.043292618	CTNS
17	3636468 3661542	+ 3398		
protein_coding	"cystinosin, lysosomal cystine transporter			
[Source:HGNC	Symbol;Acc:HGNC:2518]"	- 638 760	784	
1066	1010 1020	10.26814557	9.861073043	
10.68796798	15.16823493	12.95258935	14.01273255	
ENSG00000133030	6509.066388	6687.952481	8360.176458	
6140.986671	4866.303847	5365.28646	7185.731776	
5457.52566	0.397006172	0.006201867	0.043293566	MPRIIP
17	17042545	17217679	+ 18153	
protein_coding	myosin phosphatase Rho interacting protein			
[Source:HGNC	Symbol;Acc:HGNC:30321]	- 5626 7215	8550	
6113	5325 5468	16.94907623	17.52354167	
21.81826252	16.28197954	12.78291209	14.06132137	
ENSG00000161682	202.4682933	386.5386257	432.1868999	
468.1334515	615.0276975	620.1282083	340.3979396	
567.7631191	-0.736112787	0.006207626	0.043293566	
FAM171A2	17 44353215	44363875	- 3592	
protein_coding	family with sequence similarity 171 member A2			

[Source:HGNC Symbol;Acc:HGNC:30480]	-	175	417	442
466	673	632	2.664381647	5.118393662
5.700177731	6.272646384	8.16464552	8.213472098	
ENSG00000188779	18.51138681	29.66243651	31.28954932	
98.44866576	49.34843338	72.60994844	26.48779088	
73.46901586	-1.465909711	0.00620794	0.043293566	SKOR1
15	67819704	67834561	+ 4479	
protein_coding	SKI family transcriptional corepressor 1 [Source:HGNC			
Symbol;Acc:HGNC:21326]	-	16	32	32 98 54
74	0.195359094	0.31499443	0.330956848	
1.057903928	0.525377289	0.771252692		
ENSG00000275395	3.470885027	43.56670362	27.37835565	
101.4624004	68.53949081	86.34696571	24.80531477	
85.44961898	-1.772516469	0.006208479	0.043293566	FCGBP
19	39863323	39934626	- 12961	
protein_coding	Fc fragment of IgG binding protein [Source:HGNC			
Symbol;Acc:HGNC:13572]	-	3	47	28 101 75
88	0.01265836	0.159879693	0.100074165	
0.376776736	0.252162993	0.316949592		
ENSG00000111731	894.3313753	812.0091994	740.193401	
479.1838119	568.4208438	661.3392601	815.5113252	
569.6479719	0.517114925	0.006210688	0.043293566	C2CD5
12	22448583	22544546	- 6759	
protein_coding	C2 calcium dependent domain containing 5 [Source:HGNC			
Symbol;Acc:HGNC:29062]	-	773	876	757 477 622
674	6.254487951	5.71420238	5.188190198	
3.412220981	4.010204648	4.655040737		
ENSG00000127948	861.9364484	1223.575506	1096.112025	
1573.169496	1256.557331	1640.592349	1060.541326	
1490.106392	-0.489643025	0.006227968	0.04339423	POR
7	75899200	75986855	+ 6112	
protein_coding	cytochrome p450 oxidoreductase [Source:HGNC			
Symbol;Acc:HGNC:9208]	-	745	1320	1121 1566 1375
1672	6.666035772	9.521920334	8.496199916	
12.38824052	9.803427701	12.77023718		
ENSG00000180776	2468.956216	1815.897285	2025.998318	
1599.288529	1650.430939	1433.555874	2103.617273	
1561.091781	0.429769484	0.006235261	0.043425252	
ZDHHC20 13	21372573	21459370	- 5574	
protein_coding	zinc finger DHHC-type containing 20 [Source:HGNC			
Symbol;Acc:HGNC:20749]	-	2134	1959	2072 1592 1806
1461	20.93737172	15.4953514	17.21968658	
13.80947969	14.11917689	12.23571316		
ENSG00000185909	116.8531292	145.5313291	190.6706912	
228.0392564	238.517428	332.6320611	151.0183832	
266.3962485	-0.816895784	0.00624064	0.043442926	
KLHDC8B 3	49171611	49176486	+ 2158	
protein_coding	kelch domain containing 8B [Source:HGNC			
Symbol;Acc:HGNC:28557]	-	101	157	195 227 261
339	2.559556061	3.207614515	4.185868944	

5.085991539	5.270449601	7.333212899					
ENSG00000266074	790.2048245	847.2333427	1857.816991				
640.9209057	316.1955176	403.2795785	1165.085053				
453.4653339	1.361648651	0.006246151	0.043461498	BAHCC1			
17	81395475	81466332	+ 13473				
protein_coding	BAH domain and coiled-coil containing 1 [Source:HGNC						
Symbol;Acc:HGNC:29279]	-	683	914	1900	638	346	
411	2.772369464	2.990996081	6.532685445				
2.289589293	1.119103842	1.424044458					
ENSG00000210077	108.7543975	163.1434008	81.15726854				
306.3963577	179.116536	200.167966	117.6850223				
228.5602866	-0.955584756	0.00627641	0.043652177	MT-TV			
MT	1602	1670	+ 69	Mt_tRNA			
mitochondrially	encoded tRNA valine [Source:HGNC						
Symbol;Acc:HGNC:7500]	-	94	176	83	305	196	
204	74.50295108	112.4598591	55.72261093				
213.7233462	123.7843038	138.0152615					
ENSG00000133422	963.7490759	1018.719304	1109.801202				
1416.455293	1311.388924	1365.852003	1030.756527				
1364.565407	-0.404337261	0.006295073	0.043762063	MORC2			
22	30925130	30968298	- 6258				
protein_coding	MORC family CW-type zinc finger 2 [Source:HGNC						
Symbol;Acc:HGNC:23573]	-	833	1099	1135	1410	1435	
1392	7.279543664	7.742765238	8.401614656				
10.89393477	9.992518017	10.38364214					
ENSG00000166503	1962.207002	1707.444001	1832.394232				
1285.860124	1470.400543	1439.443167	1834.015078				
1398.567945	0.390644856	0.006305568	0.043815101	HDGFL3			
15	83112738	83208018	- 16253				
protein_coding	HDGF like 3 [Source:HGNC Symbol;Acc:HGNC:24937] -						
1696	1842	1874	1280	1609	1467	5.706726056	
4.996777928	5.3411959	3.807830874	4.314009593				
4.213496275							
ENSG00000120889	3618.976122	4670.906799	4114.575735				
5230.838802	6442.712136	4837.392511	4134.819552				
5503.647816	-0.412427143	0.006317767	0.043864014				
TNFRSF10B	8	23020133	23069179	-		5158	
protein_coding	TNF receptor superfamily member 10b						
[Source:HGNC Symbol;Acc:HGNC:11905]	-		3128	5039	4208		
5207	7050	4930	33.16500899	43.07219244			
37.79173661	48.80984813	59.56160292	44.61815597				
ENSG00000197632	492.8656739	456.0599613	147.6475608				
866.9510056	1111.253611	920.3801573	365.5243987				
966.1949246	-1.402722686	0.006318346	0.043864014				
SERPINB2	18	63871692	63903890	+		2748	
protein_coding	serpin family B member 2 [Source:HGNC						
Symbol;Acc:HGNC:8584]	-	426	492	151	863	1216	
938	8.477886215	7.893731178	2.545438888				
15.18431777	19.28303743	15.93426905					
ENSG00000135776	403.7796248	469.9642284	407.7419395				

315.4375617	197.3937335	296.3270869	427.1619309	
269.7194607	0.664630017	0.006334039	0.043952995	ABCB10
1	229516582	229558695	- 4256	
protein_coding	ATP binding cassette subfamily B member 10			
[Source:HGNC Symbol;Acc:HGNC:41]	-	349	507	417
314	216 302	4.484546385	5.252188422	
4.53875658	3.567214669	2.211621125	3.312465468	
ENSG00000175575	549.556796	721.1679876	652.1915436	
944.3035287	1009.815165	779.0851225	640.972109	
911.0679386	-0.506485211	0.006342596	0.043992408	PAAF1
11	73876699	73931124	+ 7937	
protein_coding	proteasomal ATPase associated factor 1 [Source:HGNC			
Symbol;Acc:HGNC:25687]	-	475 778	667 940	1105
794	3.272894016	4.32172546	3.892888003	
5.726281447	6.066867296	4.669927712		
ENSG00000136689	9.255693406	5.561706845	0	23.10529911
54.83159264	20.60552591	4.939133417	32.84747255	
-2.752267489	0.006348701	0.044014782	IL1RN	2
113107214	113134016	+	3256	protein_coding
interleukin 1 receptor antagonist [Source:HGNC				
Symbol;Acc:HGNC:6000]	-	8 6	0	23 60
21	0.134369377	0.08124578	0	0.341542424
0.803018317	0.301079325			
ENSG00000090013	985.7313477	1193.913069	753.8825789	
1172.342785	1443.898606	1636.667486	977.842332	
1417.636293	-0.53570559	0.006364556	0.044104701	BLVRB
19	40447765	40465840	- 1689	
protein_coding	biliverdin reductase B [Source:HGNC			
Symbol;Acc:HGNC:1063]	-	852 1288	771 1167	1580
1668	27.58701163	33.62173892	21.14594919	
33.40738045	40.76486751	46.10122149		
ENSG00000184900	4502.894842	4693.153626	5205.798768	
3603.422082	3788.863052	3973.922854	4800.615745	
3788.735996	0.341578277	0.006382402	0.044208325	SUM03
21	44805617	44818779	- 2732	
protein_coding	small ubiquitin-like modifier 3 [Source:HGNC			
Symbol;Acc:HGNC:11124]	-	3892 5063	5324 3587	4146
4050	77.90885995	81.70736223	90.27340163	
63.48218965	66.13132138	69.20227374		
ENSG00000204628	24067.11678	27432.19206	24617.05293	
29608.93852	30534.80008	36931.97094	25372.12059	
32358.56985	-0.350880413	0.006389778	0.044239376	RACK1
5	181236909	181248096	- 5990	
protein_coding	receptor for activated C kinase 1 [Source:HGNC			
Symbol;Acc:HGNC:4399]	-	20802 29594	25176 29474	33413
37639	189.9209974	217.826546	194.6983914	
237.9104253	243.0788909	293.3305455		
ENSG00000250954	0 0.926951141	0	24.10987733	
2.741579632	10.79337071	0.308983714		
12.54827589	-5.105635072	0.006393416	1	AC016687.3

	15.02556661	15.13319494	19.43483755	17.08971272		
	18.76401339					
ENSG00000228526	168.9164047	118.649746	173.0703197			
37.16939421	55.74545252	110.8773537	153.5454901			
67.93073348	1.175903434	0.006451085	0.044522683			
MIR34AHG	1	9148011	9198906	-	8702	lincRNA MIR34A
host gene [Source:HGNC Symbol;Acc:HGNC:51913]				-	146	128
	177	37	61	113	0.917547359	0.648522202
	0.942229383	0.20558142	0.305470555	0.6061853		
ENSG00000138650	150.4050178	152.0199871	123.2026004			
300.3688884	219.3263706	211.9425522	141.8758685			
243.8792704	-0.781508839	0.006458156	0.044551365			PCDH10
	4	133149315	133208606	+	10161	
protein_coding	protocadherin 10	[Source:HGNC Symbol;Acc:HGNC:13404]				
	-	130	164	126	299	240
	0.69968347	0.711608873	0.574429255	1.422774109		
1.029279654	0.992346485					
ENSG00000272721	3.470885027	8.342560268	15.64477466	0		
	0	0	9.152739984	0	5.689637473	
0.006462651	1	AC131235.3	3	184134019		
184135238	-	386	antisense	"novel transcript,		
antisense to EIF2B5"	-	3	9	16	0	0
	0	0.425038884	1.027990646	1.920149899	0	
	0					
ENSG00000238260	0	0	0	12.05493866	6.397019142	
	8.830939675	0	9.09429916	-5.604095451		
0.006476896	1	AL513320.1	1	3623190	3624743	-
	622	antisense	novel transcript	-	0	
	0	0	12	7	9	0
	0.932807604	0.490417832	0.675457706			
ENSG00000227036	122.6379376	100.1107232	155.4699482			
36.16481599	79.50580934	53.96685357	126.0728697			
56.5458263	1.154322645	0.006493417	0.044774411			
LINC00511	17	72290091	72640472	-	27605	
	processed_transcript	long intergenic	non-protein coding RNA			
511 [Source:HGNC Symbol;Acc:HGNC:43564]	-	106	108	159		
	36	87	55	0.209996872	0.172492399	
0.266815975	0.063054483	0.137337804	0.093008143			
ENSG00000103888	683.7643503	200.2214464	847.7512268			
244.112508	116.0602044	146.2011124	577.2456745			
168.7912749	1.774051907	0.006511574	0.044863207			CEMIP
	15	80779343	80951776	+	7621	
protein_coding	cell migration inducing hyaluronidase 1	[Source:HGNC Symbol;Acc:HGNC:29213]				
	-	591	216	867	243	127
	149	4.241019135	1.249613613	5.269987579		
1.54168458	0.726190155	0.912683801				
ENSG00000101457	1052.835125	1161.469779	1070.689266			
1340.107348	1487.76388	1503.222176	1094.998057			
1443.697801	-0.39864098	0.006512164	0.044863207			
DNTTIP1 20	45791937	45811427	+	1883		

protein_coding	deoxynucleotidyltransferase terminal interacting					
protein 1 [Source:HGNC Symbol;Acc:HGNC:16160]	-	910	1253			
1095	1334	1628	1532	26.42930757	29.33828404	
26.93805622	34.25363976	37.67581696	37.97995809			
ENSG00000181873	190.8986765	288.2818048	345.1628409			
526.3989883	393.8736072	423.8851044	274.7811074			
448.0525666	-0.703078501	0.006517041	0.044876577			IBA57
1	228165815	228182257	+	10219		
protein_coding	"IBA57, iron-sulfur cluster assembly [Source:HGNC					
Symbol;Acc:HGNC:27302]"	-	165	311	353	524	431
432	0.883019426	1.341794316	1.60017972			
2.479271593	1.837923661	1.973428443				
ENSG00000206897	5.784808379	11.12341369	9.777984162	0		
0	0	8.895402077	0	5.647841006		
0.006519692	1	SNORA9B 12	123616708	123616840		
+	133	snoRNA "small nucleolar RNA, H/ACA box 9B				
[Source:HGNC Symbol;Acc:HGNC:52223]"	-	5	12	10		
0	0	0	2.055952497	3.977988864		
3.48297867	0	0	0			
ENSG00000260742	11.56961676	9.269511408	5.866790497	0		
0	0	8.901972888	0	5.645748317		
0.006519817	1	AC009962.1	2	181887851		
181891663	-	3813	antisense	"novel transcript,		
antisense to SSFA2"	-	10	10	6	0	0
0	0.143426007	0.115629102	0.072893181	0		
0	0					
ENSG00000173209	573.8529912	397.6620394	523.1221526			
257.1720248	357.3192121	347.3502939	498.2123944			
320.6138436	0.634525026	0.006525426	0.044914089			AHSA2P
2	61177418	61191203	+	9083		
transcribed_unitary_pseudogene	"activator of HSP90 ATPase homolog 2,					
pseudogene [Source:HGNC Symbol;Acc:HGNC:20437]"	-	496	429			
535	256	391	354	2.986393798	2.082389359	
2.728518631	1.362736435	1.875884267	1.81936562			
ENSG00000183763	569.2251445	516.3117855	543.6559194			
367.6756293	388.3904479	383.6552681	543.0642831			
379.9071151	0.514981206	0.006529057	0.044918853			TRAIP
3	49828599	49856574	-	3263		
protein_coding	TRAF interacting protein [Source:HGNC					
Symbol;Acc:HGNC:30764]"	-	492	557	556	366	425
391	8.245988821	7.526136302	7.893328431			
5.42331997	5.675844047	5.593784348				
ENSG00000106034	385.268238	344.8258244	322.6734773			
158.7233591	286.9520015	179.5624401	350.9225132			
208.4126002	0.749960575	0.006547847	0.04502786			CPED1
7	120988677	121297444	+	7705		
protein_coding	cadherin like and PC-esterase domain containing 1					
[Source:HGNC Symbol;Acc:HGNC:26159]"	-	333	372	330		
158	314	183	2.363558213	2.128649979		
1.984009524	0.991483886	1.775888123	1.10872664			

ENSG00000203485	2826.457374	3503.875312	3448.695014		
3920.868801	4067.590314	4858.979252	3259.6759		
4282.479456	-0.393438631	0.006557205	0.04507194	INF2	
14	104689606	104722535	+ 9488		
protein_coding	"inverted formin, FH2 and WH2 domain containing [Source:HGNC Symbol;Acc:HGNC:23791]"				
	-	2443	3780	3527	
3903	4451	4952	14.0813244	17.56511841	
17.22000366	19.88955616	20.44285348	24.36419102		
ENSG00000003756	1634.786848	1582.305597	1752.214762		
1285.860124	1217.261357	1314.828796	1656.435736		
1272.650092	0.380331877	0.006580623	0.045212575	RBM5	
3	50088908	50119021	+ 10368		
protein_coding	RNA binding motif protein 5 [Source:HGNC Symbol;Acc:HGNC:9902]				
	-	1413	1707	1792	1280
1340	7.453184739	7.25892803	8.006550968	1332	
5.969200925	5.598450389	6.03331285			
ENSG00000214866	13.88354011	11.12341369	0	55.25180221	
61.22861179	20.60552591	8.335651266	45.6953133		
-2.464050197	0.006583949	0.045215109	DCDC2C	2	
3703592	3847411	+ 2242	protein_coding	doublecortin	
domain containing 2C	[Source:HGNC Symbol;Acc:HGNC:32696]				
	-				
12	12	0	55	67	21
0.23598239	0	1.186119095	1.302260273	0.292711881	
0.437249904					
ENSG00000108588	3867.722882	3490.897996	3960.083585		
2891.176123	2847.587378	3161.476404	3772.901488		
2966.746635	0.346731315	0.006587318	0.045217927	CCDC47	
17	63745250	63776351	- 4537		
protein_coding	coiled-coil domain containing 47 [Source:HGNC Symbol;Acc:HGNC:24856]				
	-	3343	3766	4050	2878
3222	40.29603454	36.5970007	41.35125547	3116	
30.67066743	29.92865965	33.15147015			
ENSG00000277791	3371.386323	3138.656563	3108.421165		
2746.516859	2407.106917	2359.823324	3206.154684		
2504.482367	0.356281982	0.006592831	0.045225711	PSMB3	
17	38752736	38764231	+ 1179		
protein_coding	proteasome subunit beta 3 [Source:HGNC Symbol;Acc:HGNC:9540]				
	-	2914	3386	3179	2734
2405	135.1669316	126.6213987	124.9048145	2634	
112.1207313	97.35551607	95.22419533			
ENSG00000198805	1011.184505	1212.452092	991.487594		
1369.240117	1487.76388	1437.480736	1071.708064		
1431.494911	-0.417244223	0.006594368	0.045225711	PNP	
14	20468954	20477094	+ 4139		
protein_coding	purine nucleoside phosphorylase [Source:HGNC Symbol;Acc:HGNC:7892]				
	-	874	1308	1014	1363
1465	11.54810487	13.93305256	11.34867044	1628	
15.92214761	17.14026657	16.52297456			
ENSG00000169564	2090.629748	2928.238654	2871.793948		
3670.728823	3062.344449	4035.739432	2630.220783		

3589.604235	-0.448175259	0.006602323	0.045259963	PCBP1
2	70087454	70089203	+ 1750	
protein_coding	poly(rC) binding protein 1 [Source:HGNC			
Symbol;Acc:HGNC:8647]	-	1807 3159	2937 3654	3351
4113	56.46961368	79.58762321	77.74426349	
100.9559014	83.44397358	109.7151741		
ENSG00000159202	4085.231677	4649.586922	4086.219581	
5441.800229	5527.938398	5180.817943	4273.679394	
5383.518857	-0.332955721	0.006637615	0.0454815	UBE2Z
17	48908369	48929056	+ 5753	
protein_coding	ubiquitin conjugating enzyme E2 Z [Source:HGNC			
Symbol;Acc:HGNC:25847]	-	3531 5016	4179 5417	6049
5280	33.56588144	38.44121553	33.64964237	
45.52664826	45.81923229	42.84356334		
ENSG00000075391	2504.822028	2313.670048	1850.972402	
3067.98189	2907.90213	2830.806774	2223.154826	
2935.563598	-0.401292755	0.006649499	0.045542512	RASAL2
1	178094141	178484147	+ 16044	
protein_coding	RAS protein activator like 2 [Source:HGNC			
Symbol;Acc:HGNC:9874]	-	2165 2496	1893 3054	3182
2885	7.37972129	6.859080276	5.465632366	
9.203597043	8.642633959	8.394197826		
ENSG00000156675	48.59239038	62.10572644	56.71230814	
7.032047554	0	25.51160351	55.80347498	10.84788369
2.367965339	0.006656228	0.045547229		RAB11FIP1
8	37858618	37899467	- 9602	
protein_coding	RAB11 family interacting protein 1 [Source:HGNC			
Symbol;Acc:HGNC:30265]	-	42 67	58 7	0
26	0.239211636	0.307643015	0.279813554	
0.03524825	0	0.126403088		
ENSG00000080031	126.1088227	101.9646255	60.6235018	
236.0758822	125.1988032	225.6795695	96.23231665	
195.6514183	-1.0254423	0.006656955	0.045547229	PTPRH
19	55181248	55209506	- 4344	
protein_coding	"protein tyrosine phosphatase, receptor type H			
[Source:HGNC Symbol;Acc:HGNC:9672]"	-		109 110	62
235	137 230	1.372244169	1.116443698	
0.661156586	2.615647781	1.374324689	2.4716334	
ENSG00000049541	1587.351419	1367.252933	1519.498739	
918.1844949	1222.744516	1149.003373	1491.367697	
1096.644128	0.443012437	0.006659126	0.045547229	RFC2
7	74231499	74254458	- 2211	
protein_coding	replication factor C subunit 2 [Source:HGNC			
Symbol;Acc:HGNC:9970]	-	1372 1475	1554 914	1338
1171	33.93595549	29.41285864	32.55852544	
19.98750888	26.37096174	24.72374117		
ENSG00000149925	187.4277915	439.3748408	398.9417538	
515.3486279	504.4506523	749.6486569	341.9147953	
589.815979	-0.784342109	0.006666476	0.045573613	ALDOA
16	30064164	30070457	+ 3916	

protein_coding	"aldolase, fructose-bisphosphate A [Source:HGNC						
Symbol;Acc:HGNC:414]"	-	162	474	408	513	552	
764	2.262387769	5.336661006	4.826362476				
6.333968489	6.142638994	9.107448231					
ENSG00000166004	710.3744689	630.3267758	707.9260533				
572.6095866	339.9558744	448.4154924	682.875766				
453.6603178	0.590487695	0.006668946	0.045573613			CEP295	
11	93661639	93730358	+	9495			
protein_coding	centrosomal protein 295 [Source:HGNC						
Symbol;Acc:HGNC:29366]"	-	614	680	724	570	372	
457	3.536454826	3.157533025	3.532206236				
2.902559312	1.707287138	2.246814753					
ENSG00000134874	1647.513426	1694.466685	1854.883595				
1205.493866	1501.471779	1171.57133	1732.287902				
1292.845658	0.421985938	0.006676739	0.045592654			DZIP1	
13	95578202	95644703	-	8470			
protein_coding	DAZ interacting zinc finger protein 1 [Source:HGNC						
Symbol;Acc:HGNC:20908]"	-	1424	1828	1897	1200	1643	
1194	9.194355499	9.515393198	10.37495869				
6.850133765	8.453036628	6.58062211					
ENSG00000154767	739.2985108	926.0241897	744.1045947				
1213.530492	1086.579394	1019.482925	803.1424317				
1106.530937	-0.461618258	0.006677697	0.045592654			XPC	
3	14145147	14178783	-	4798			
protein_coding	"XPC complex subunit, DNA damage recognition and						
repair factor [Source:HGNC Symbol;Acc:HGNC:12816]"	-					639	
999	761	1208	1189	1039	7.283419546		
9.17992647	7.347284705	12.17328829	10.79891714				
10.1088404							
ENSG00000099840	26.61011854	40.7858502	43.02313031				
3.013734666	10.96631853	10.79337071	36.80636635				
8.25780797	2.153574822	0.006687024	0.045635955			IZUM04	
19	2096429	2099593	+	2770	protein_coding	IZUM0	
family member 4	[Source:HGNC Symbol;Acc:HGNC:26950]"					-	23
44	44	3	12	11	0.45409088		
0.700336668	0.735826396	0.052365192	0.188781779				
0.185378324							
ENSG00000198786	31045.90961	30916.6014	37294.20939				
43288.28017	36057.25532	51754.21257	33085.57347				
43699.91602	-0.401413231	0.006697442	0.045686659			MT-ND5	
MT	12337	14148	+	1812	protein_coding		
mitochondrially	encoded NADH:ubiquinone oxidoreductase core subunit 5						
[Source:HGNC Symbol;Acc:HGNC:7461]"	-				26834	33353	38141
43091	39456	52745	809.8823509	811.5413781			
975.0712195	1149.819305	948.8847334	1358.842555				
ENSG00000140563	341.3036943	406.0045997	493.7882002				
266.2132288	308.8846386	145.2198969	413.6988314				
240.1059214	0.784949436	0.006702314	0.045699501			MCTP2	
15	94231538	94483952	+	12978			
protein_coding	multiple C2 and transmembrane domain containing 2						

[Source:HGNC Symbol;Acc:HGNC:25636]	-	295	438	505
265	338	148	1.243108279	1.48799098
1.802544786	0.987277684	1.134925955	0.532353338	
ENSG00000237548	13.88354011	12.05036483	1.955596832	0
0	0	9.296500591	0	5.707917209
0.006726048	1	TTL11-IT1	9	121884636
121963719	-	1052	lincRNA TTL11 intronic transcript 1	
[Source:HGNC Symbol;Acc:HGNC:24214]	-	12	13	2
0	0	0	0.623821328	0.544830699
0.088067712	0	0	0	
ENSG00000169255	864.2503718	676.6743328	637.5245673	
420.918275	582.1287419	475.8895269	726.1497573	
492.978848	0.557426933	0.006755154	0.04603925	
B3GALNT1	3	161083883	161105384	-
protein_coding	"beta-1,3-N-acetylgalactosaminyltransferase 1			4183
(globoside blood group)	[Source:HGNC Symbol;Acc:HGNC:918]"			-
747	730	652	419	637
7.694297132	7.220415452	4.84314392	6.636057883	
5.412524932				
ENSG00000173581	565.7542594	974.225649	688.370085	
1103.026888	1060.991318	1095.03652	742.7833311	
1086.351575	-0.547174196	0.006764385	0.046081618	
CCDC106	19	55641062	55653161	+ 2709
protein_coding	coiled-coil domain containing 106			[Source:HGNC
Symbol;Acc:HGNC:30181]	-	489	1051	704
1116	9.871759511	17.1051808	12.03832628	1098
19.59722377	18.67591172	19.23097155		1161
ENSG00000260219	27.76708022	50.98231275	21.51156516	
82.37541421	95.95528713	78.49724156	33.42031937	
85.6093143	-1.353020076	0.006769998	0.046094259	
AC106782.2	16	30355441	30357104	+ 992
lincRNA	uncharacterized LOC101928707			[Source:NCBI
gene;Acc:101928707]	-	24	55	22
80	1.323104914	2.444471484	1.027338265	82
3.99671699	4.612498359	3.764647787		105
ENSG00000172216	2139.222138	4870.201294	3885.770906	
5915.961149	6940.765769	7415.045681	3631.731446	
6757.257533	-0.895632546	0.006772271	0.046094259	CEBPB
20	50190734	50192689	+ 1956	
protein_coding	CCAAT enhancer binding protein beta			[Source:HGNC
Symbol;Acc:HGNC:1834]	C/EBP	1849	5254	3974
7557	51.69669431	118.428213	94.11556811	5889
145.5706832	169.2066883	180.3543442		7595
ENSG00000198546	236.0201818	221.5413227	225.8714341	
419.9136968	286.0381416	372.8618974	227.8109795	
359.6045786	-0.658385291	0.006777057	0.046106305	ZNF511
10	133308475	133313162	+ 2728	
protein_coding	zinc finger protein 511			[Source:HGNC
Symbol;Acc:HGNC:28445]	-	204	239	231
380	4.089597006	3.862668989	3.922564285	418
				313

7.408548567	4.999868351	6.50257345					
ENSG00000273230	255.6885303	420.8358179	387.2081728				
556.536335	501.7090727	579.898372	354.577507				
546.0479266	-0.620701418	0.006780335	0.046108088				
AC102953.2	7	1464497	1467522	-	3026	lincRNA novel	
transcript	-	221	454	396	554	549	591
	3.994091987	6.614863505	6.062178473		8.852013295		
	7.906094817	9.117265314					
ENSG00000100207	956.8073058	1027.061864	1009.087965				
1475.725408	1192.58714	1332.490675	997.6523785				
1333.601075	-0.418270477	0.006802639	0.046239194			TCF20	
22	42160013	42343616	-		7548		
protein_coding	transcription factor 20 [Source:HGNC						
Symbol;Acc:HGNC:11631]	-	827	1108	1032	1469	1305	
1358	5.991952071	6.47204945	6.333594599				
9.410032444	7.534201271	8.398735693					
ENSG00000160948	1332.81985	1393.207565	1337.628233				
2011.1656	1676.019015	1660.216659	1354.551883				
1782.467092	-0.39583746	0.006816802	0.046314871			VPS28	
8	144423601	144428563	-		3769		
protein_coding	"VPS28, ESCRT-I subunit [Source:HGNC						
Symbol;Acc:HGNC:18178]"	-	1152	1503	1368	2002	1834	
1692	16.71556476	17.5819403	16.81366599				
25.68260972	21.20468336	20.95657264					
ENSG00000123104	467.412517	445.8634987	610.1462117				
266.2132288	394.787467	323.8011214	507.8074091				
328.2672724	0.628933946	0.006832738	0.04640252			ITPR2	
12	26336515	26833198	-		12750		
protein_coding	"inositol 1,4,5-trisphosphate receptor type 2						
[Source:HGNC Symbol;Acc:HGNC:6181]"	-		404	481	624		
265	432	330	1.732869641	1.663293344			
2.267132281	1.004932532	1.476495609	1.20823049				
ENSG00000236591	9.255693406	10.19646255	6.844588913		0		
0	0	8.765581623	0	5.624716329			
0.006852297	1	AL357992.1	6	149027700			
149032573	-	130	antisense	novel transcript			
-	8	11	7	0	0	0	
3.365436088	3.730639557	2.494348571	0	0	0		
ENSG00000050438	145.7771711	136.2618177	195.5596832				
83.37999243	31.07123583	99.10276747	159.1995574				
71.18466524	1.163454045	0.00685981	0.046565679			SLC4A8	
12	51391317	51515763	+	17980			
protein_coding	solute carrier family 4 member 8 [Source:HGNC						
Symbol;Acc:HGNC:11034]	-	126	147	200	83	34	
101	0.383244182	0.360463757	0.515279381				
0.223197652	0.082403912	0.262227191					
ENSG00000272764	17.35442514	0.926951141	10.75578258		0		
0	0	9.679052951	0	5.763755358			
0.006896314	1	AL596094.1	10	5813985	5814441	+	
276	lincRNA novel transcript			-	15	1	

11	0	0	0	2.972192197	0.159744118	
1.846231085	0	0	0	0		
ENSG00000153914	2052.450013	1928.058373	1993.730971			
1628.421298	1472.228263	1545.414443	1991.413119			
1548.688001	0.362721257	0.006916198	0.046927619		SREK1	
5	66139971	66183615	+	18240		
protein_coding	splicing regulatory glutamic acid and lysine rich					
protein 1 [Source:HGNC Symbol;Acc:HGNC:17882]	-	1774	2080			
2039	1621	1611	1575	5.31892044	5.027735926	
5.1783911	4.296941067	3.848835097	4.030897548			
ENSG00000182095	2966.449737	4200.015619	5592.029142			
6996.887316	4836.146471	6768.424653	4252.831499			
6200.486147	-0.543703801	0.006940284	0.047070153		TNRC18	
7	5306790	5425414	-	12572	protein_coding	
trinucleotide repeat containing	18 [Source:HGNC					
Symbol;Acc:HGNC:11962]	-	2564	4531	5719	6965	5292
6898	11.15342782	15.88999087	21.07260274			
26.78662297	18.34315606	25.61325973				
ENSG00000214160	1649.82735	1759.353265	1806.971473			
2902.226483	1940.12452	2261.701772	1738.717363			
2368.017592	-0.445338341	0.006948456	0.047094793		ALG3	
3	184242301	184249548	-	3464		
protein_coding	"ALG3, alpha-1,3- mannosyltransferase [Source:HGNC					
Symbol;Acc:HGNC:23056]"	-	1426	1898	1848	2889	2123
2305	22.51315466	24.15751638	24.7130609			
40.32467492	26.70734451	31.06269141				
ENSG00000116497	1132.665481	984.4221116	1061.88908			
831.7907678	823.3877496	661.3392601	1059.658891			
772.1725925	0.456170348	0.006952046	0.047094793			
S100PBP 1	32816767	32858879	+	9194		
protein_coding	S100P binding protein [Source:HGNC					
Symbol;Acc:HGNC:25768]	-	979	1062	1086	828	901
674	5.82335016	5.092768972	5.47176934			
4.354387292	4.270501604	3.422168843				
ENSG00000131724	2450.444829	2182.969937	2269.470124			
1645.499128	2047.046125	1399.213331	2300.96163			
1697.252861	0.438661787	0.006953159	0.047094793			
IL13RA1 X	118727572	118794539	+	4372		
protein_coding	interleukin 13 receptor subunit alpha 1 [Source:HGNC					
Symbol;Acc:HGNC:5974]	-	2118	2355	2321	1638	2240
1426	26.49357195	23.74896657	24.59220345			
18.11485911	22.32679901	15.22598537				
ENSG00000225806	24.29619519	4.634755704	0.977798416		0	
0	0	9.969583103	0	5.804665344		
0.006966748	1	AL121917.1	20	58863528		
58888809	-	1521	antisense	uncharacterized		
LOC101927932 [Source:NCBI gene;Acc:101927932]	-	21	5			
1	0	0	0	0.755065789	0.144935492	
0.030456027	0	0	0			
ENSG00000116754	5691.094483	5000.901405	5269.355665			

4556.766815	4085.867512	3967.054345	5320.450517	
4203.229557	0.339965601	0.006973837	0.047198822	SRSF11
1	70205682	70253052	+ 8473	
protein_coding	serine and arginine rich splicing factor 11			
[Source:HGNC Symbol;Acc:HGNC:10782]	-	4919	5395	5389
4536	4471 4043	31.74931275	28.07295959	
29.46276033	25.88433763	22.99461069	22.27473627	
ENSG00000198732	1392.981858	1479.414021	1813.816062	
1011.61027	1006.159725	1352.114986	1562.070647	
1123.294993	0.476041604	0.006974694	0.047198822	SMOC1
14	69854131	70032366	+ 4369	
protein_coding	SPARC related modular calcium binding 1 [Source:HGNC Symbol;Acc:HGNC:20318]			
	-	1204 1596	1855 1007	1101
1378	15.07089885	16.10589266	19.66818683	
11.14419345	10.98155578	14.72357282		
ENSG00000170775	31.23796524	43.56670362	81.15726854	
18.082408	18.27719755	5.887293117	51.98731247	
14.08229955	1.884810316	0.006979198	0.047202846	GPR37
7	124745997	124765627	- 3021	
protein_coding	G protein-coupled receptor 37 [Source:HGNC Symbol;Acc:HGNC:4494]			
	-	27 47	83 18	20
6	0.488773613	0.685932042	1.272711074	
0.288086559	0.288494719	0.092714265		
ENSG00000128524	596.9922247	1197.620874	921.086108	
1247.686152	1583.719168	1280.486253	905.2330689	
1370.630524	-0.597450431	0.006981464	0.047202846	
ATP6V1F 7	128862826	128865844	+ 789	
protein_coding	ATPase H+ transporting V1 subunit F [Source:HGNC Symbol;Acc:HGNC:16832]			
	-	516 1292	942 1242	1733
1305	35.76575615	72.19705265	55.3065229	
76.11071628	95.71503385	77.21106525		
ENSG00000185043	905.9009921	1218.94075	1026.688337	
1179.374833	1504.213358	1792.680754	1050.510026	
1492.089648	-0.505726401	0.007010745	0.047379864	CIB1
15	90229975	90234047	- 1472	
protein_coding	calcium and integrin binding 1 [Source:HGNC Symbol;Acc:HGNC:16920]			
	-	783 1315	1050 1174	1646
1827	29.09033113	39.3869091	33.04334044	
38.56217342	48.72822801	57.93977084		
ENSG00000101955	1903.201957	1902.103741	1572.299853	
1151.246642	1473.142122	1372.720512	1792.535184	
1332.369759	0.427685312	0.007019865	0.047420535	SRPX
X	38149336	38220924	- 1987	
protein_coding	sushi repeat containing protein X-linked [Source:HGNC Symbol;Acc:HGNC:11309]			
	-	1645 2052	1608 1146	1612
1399	45.27544712	45.53165613	37.4878586	
27.88611198	35.35295888	32.86744033		
ENSG00000160752	1412.650206	2011.483976	1992.753172	
1169.32905	1085.665534	1556.207814	1805.629118	
1270.4008	0.507801827	0.007046235	0.047577649	FDPS

1	155308748	155320666	+	3718		
protein_coding	farnesyl diphosphate synthase	[Source:HGNC				
Symbol;Acc:HGNC:3631]	-	1221 2170	2038	1164	1188	
1586	17.95977912	25.73263776	25.39201992			
15.13717429	13.92405253	19.91314396				
ENSG00000101972	5856.540002	4979.581529	5486.426913			
4371.924422	4599.456763	3697.220077	5440.849481			
4222.867088	0.365444379	0.007058821	0.047641587		STAG2	
X	123960212	124422664	+	8187		
protein_coding	stromal antigen 2	[Source:HGNC	Symbol;Acc:HGNC:11355]			
-	5062 5372	5611 4352	5033	3768		
33.81365079	28.9297827	31.74811422	25.70190493			
26.78926126	21.48484078					
ENSG00000159055	532.2023708	598.810437	618.9463974			
348.588643	340.8697343	486.6828977	583.3197351			
392.0470917	0.573923676	0.007064871	0.047661375		MIS18A	
21	32268219	32279069	-	1723		
protein_coding	MIS18 kinetochore protein A	[Source:HGNC				
Symbol;Acc:HGNC:1286]	-	460 646	633	347	373	
496	14.60048448	16.53031763	17.01848469			
9.737453883	9.433701975	13.43824129				
ENSG00000228300	1020.440198	1391.353662	1178.247091			
1574.174074	1495.074759	1830.948159	1196.680317			
1633.398998	-0.448075171	0.007072615	0.047692574			
C19orf24	19	1275438	1279249	+	2193	protein_coding
	chromosome 19 open reading frame 24	[Source:HGNC				
Symbol;Acc:HGNC:26073]	-	882 1501	1205	1567	1636	
1866	21.99503545	30.17699692	25.45369706			
34.54868973	32.50897417	39.72089665				
ENSG00000088833	1192.827488	1635.141812	1397.273937			
2098.563906	1754.610965	1858.422194	1408.414412			
1903.865688	-0.434112868	0.007123752	0.048016224		NSFL1C	
20	1442162	1473842	-	6531	protein_coding	NSFL1
cofactor	[Source:HGNC	Symbol;Acc:HGNC:15912]	-	1031	1764	
1429	2089	1920 1894	8.633237615	11.90838467		
10.13572925	15.46535782	12.81091479	13.53774492			
ENSG00000235865	53.22023708	17.61207168	45.95652556			
10.04578222	0	9.812155195	38.92961144	6.619312472		
2.562356546	0.007126933	0.048016491	GSN-AS1	9		
121280768	121285530	-	4763	antisense		
GSN antisense RNA 1	[Source:HGNC	Symbol;Acc:HGNC:23372]	-			
46	19	47 10	0	10	0.528167851	
0.175876161	0.457108958	0.10151276	0			
0.098008886						
ENSG00000153147	3352.874936	2967.170602	2944.151031			
2469.25327	2524.994841	2246.002324	3088.065523			
2413.416812	0.355370152	0.007130333	0.048018236			
SMARCA5	4	143513463	143557486	+	8385	
protein_coding	"SWI/SNF related, matrix associated, actin dependent	regulator of chromatin, subfamily a, member 5	[Source:HGNC			

Symbol;Acc:HGNC:11101]	" -	2898	3201	3011	2458	2763
2289	18.90122826	16.83125753	16.63451505			
14.1735953	14.35940404	12.74350112				
ENSG00000253471	0 0	0	5.02289111	9.138598774		
	12.75580175	0	8.972430546	-5.585609877		
0.007143462	1	AC012574.1	8	23707141		
23789487	+	252	lincRNA novel transcript			-
0	0	0	5	10	13	0
0	0.959335863	1.729251085	2.408179457			
ENSG00000175745	2556.885303	1821.458992	3300.069655			
2019.202226	1390.894733	1834.873021	2559.471317			
1748.323327	0.549941277	0.007161339	0.048205811			NR2F1
5	93583224	93594615	+	4314		
protein_coding	nuclear receptor subfamily 2 group F member 1					
[Source:HGNC	Symbol;Acc:HGNC:7975]	RXR-like	2210	1965		
3375	2010	1522	1870	28.01604625	20.08243509	
36.24065949	22.52771448	15.37422064	20.23520002			
ENSG00000197756	11186.66244	13119.1395	13309.79204			
13525.64118	16342.55619	20127.67395	12538.53133			
16665.29044	-0.410434116	0.007168988	0.048217827			RPL37A
2	216498189	216579180	+	6841		
protein_coding	ribosomal protein L37a [Source:HGNC					
Symbol;Acc:HGNC:10348]	-	9669	14153	13612	13464	17883
20513	77.29593991	91.21428837	92.17322983			
95.1602839	113.9145985	139.9766596				
ENSG00000144868	152.7189412	160.3625474	209.2488611			
271.2361199	256.7946256	332.6320611	174.1101165			
286.8876022	-0.719366962	0.007169433	0.048217827			
TMEM108	3	133038391	133397792	+	8425	
protein_coding	transmembrane protein 108 [Source:HGNC					
Symbol;Acc:HGNC:28451]	-	132	173	214	270	281
339	0.856838031	0.905336753	1.176647346			
1.549512454	1.453432972	1.878346995				
ENSG00000108592	5360.203444	5521.847946	5497.182696			
7175.70224	6079.909764	7482.749551	5459.744695			
6912.787185	-0.340350562	0.007192785	0.048353605			FTSJ3
17	63819433	63830012	-	5212		
protein_coding	FtsJ RNA methyltransferase homolog 3 [Source:HGNC					
Symbol;Acc:HGNC:17136]	-	4633	5957	5622	7143	6653
7626	48.61302047	50.39148432	49.96764599			
66.2639712	55.62521648	68.30278777				
ENSG00000137825	173.5442514	241.0072966	261.0721771			
377.7214115	335.386575	358.1436646	225.2079084			
357.0838837	-0.662723208	0.007201377	0.048390091			ITPKA
15	41493393	41503551	+	2092		
protein_coding	inositol-trisphosphate 3-kinase A [Source:HGNC					
Symbol;Acc:HGNC:6178]	-	150	260	267	376	367
365	3.921247832	5.479559231	5.912239749			
8.690152169	7.644744617	8.144739906				
ENSG00000159063	1623.217231	1406.184881	1712.125027			

1034.715569	1121.30607	1347.208908	1580.509046	
1167.743516	0.436498163	0.007215301	0.048462347	ALG8
11	78100936	78139660	- 3448	
protein_coding	"ALG8, alpha-1,3-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:23161]" -			
1373	22.25282367	19.39779126	1751 1030	1227
14.44345804	15.50728981	18.58871273	23.52455109	
ENSG00000259146	26.61011854	17.61207168	9.777984162	0
1.827719755	2.943646558	18.00005813	1.590455438	
3.49138423	0.007255194	1	AC005476.2	14
71292729	71321814	-	973 antisense	
"novel transcript, antisense to SIPA1L1"			-	23
19	10	0	2	3
0.860943633	0.47609061	0	0.089572718	0.143931036
ENSG00000117318	2677.209318	3295.311306	3581.675598	
2258.291843	2371.466382	2618.864221	3184.732074	
2416.207482	0.398712277	0.007256373	0.048716811	ID3
1	23557918	23559794	- 1797	
protein_coding	"inhibitor of DNA binding 3, HLH protein [Source:HGNC Symbol;Acc:HGNC:5362]" bHLH			
2669	70.42226517	87.22188856	94.42593576	2595
60.4852453	62.92857289	69.33404412		
ENSG00000231672	189.7417148	237.2994921	72.3570828	
220.0026306	549.2297863	281.6088541	166.4660966	
350.2804237	-1.073926557	0.007286695	0.048878745	DIRC3
2	217284019	217756593	- 4665	
lincRNA disrupted in renal carcinoma 3 [Source:HGNC Symbol;Acc:HGNC:17805]	-	164 256	74 219	601
287	1.922591034	2.41948133	0.734822638	
2.269831837	5.614116514	2.871946097		
ENSG00000174233	733.5137024	812.9361505	1084.378444	
635.8980145	574.8178629	627.9779325	876.9427655	
612.8979366	0.517507402	0.007286888	0.048878745	ADCY6
12	48766194	48789037	- 8410	
protein_coding	adenylate cyclase 6 [Source:HGNC Symbol;Acc:HGNC:237]			
-	634 877	1109 633	629 640	
4.122759251	4.597667451	6.108548215	3.639225197	
3.259216778	3.552466687			
ENSG00000140718	2145.006947	1903.030692	2043.59869	
1766.048514	1458.520364	1384.495098	2030.545443	
1536.354659	0.402293898	0.007306075	0.048967432	FT0
16	53701692	54158512	+ 21379	
protein_coding	"FT0, alpha-ketoglutarate dependent dioxygenase [Source:HGNC Symbol;Acc:HGNC:24678]" -			
1758	1596 1411	4.742606097	1854 2053	2090
4.528572809	3.975874799	3.253150066	4.233850513	
ENSG00000080493	68.26073887	54.69011731	84.09066379	
29.13276844	22.84649694	27.47403455	69.01383999	
26.48443331	1.382448204	0.007306516	0.048967432	SLC4A4
4	71062667	71572087	+ 9622	

protein_coding	solute carrier family 4 member 4 [Source:HGNC				
Symbol;Acc:HGNC:11030]	-	59	59	86	29
28	0.335336921	0.270346416	0.414033569		
0.145724932	0.113222634	0.135843454			
ENSG00000143756	2864.637109	2570.435514	2198.09084		
3418.57969	3935.080632	2881.829981	2544.387821		
3411.830101	-0.423538782	0.007317689	0.049020823		FBX028
1	224114087	224162047	+	6044	
protein_coding	F-box protein 28 [Source:HGNC Symbol;Acc:HGNC:29046]				
-	2476	2773	2248	3403	4306
22.40375927	20.22829935	17.22956477	27.22317092		
31.04617975	22.68430755				
ENSG00000116761	173.5442514	330.9215573	172.0925212		
463.1105604	378.3379893	327.7259835	225.5194433		
389.7248444	-0.786884089	0.007343448	0.049153016		CTH
1	70411218	70439851	+	2414	
protein_coding	cystathionine gamma-lyase [Source:HGNC				
Symbol;Acc:HGNC:2501]	-	150	357	176	461
334	3.398198204	6.520259917	3.377363907		
9.233468589	7.473459289	6.458850569			
ENSG00000113593	821.4427898	772.1503003	746.0601915		
476.1700772	653.4098124	521.0254408	779.8844272		
550.2017768	0.502513101	0.007344006	0.049153016		PPWD1
5	65563236	65587549	+	3777	
protein_coding	peptidylprolyl isomerase domain and WD repeat				
containing 1 [Source:HGNC Symbol;Acc:HGNC:28954]	-				
833	763	474	715	531	10.28030682
9.723709476	9.35793467	6.067818383	8.249310579		
6.562866531					
ENSG00000130244	193.2125998	341.1180198	139.8251735		
405.8496017	318.0232373	485.7016821	224.7185977		
403.1915071	-0.84157328	0.007347069	0.049153016		FAM98C
19	38403135	38409088	+	4598	
protein_coding	family with sequence similarity 98 member C				
[Source:HGNC Symbol;Acc:HGNC:27119]	-				
404	348	495	1.986287991	3.528684337	143
1.440686632	4.248284712	3.29813839	5.025534605		
ENSG00000138798	49.74935206	26.88158308	57.69010655		
7.032047554	16.44947779	12.75580175	44.77368056		
12.07910903	1.88528818	0.007352412	0.049167243		EGF
4	109912884	110012266	+	6127	
protein_coding	epidermal growth factor [Source:HGNC				
Symbol;Acc:HGNC:3229]	-	43	29	59	7
13	0.383809118	0.20868156	0.446073668		18
0.055239708	0.128021592	0.099047041			
ENSG00000120327	121.480976	110.3071858	59.64570339		
205.9385355	205.6184724	152.0884055	97.1446217		
187.8818045	-0.953715583	0.007357704	0.049181119		
PCDHB14	5	141222932	141227759	+	4828
protein_coding	protocadherin beta 14 [Source:HGNC				

Symbol;Acc:HGNC:8685]	-	105	119	61	205	225
155	1.189369371	1.086709986	0.585281813			
2.052994643	2.030831329	1.498685387				
ENSG00000100387	1066.718665	835.1829779	804.7280965			
630.8751234	691.7919272	611.2972686	902.2099131			
644.6547731	0.483934311	0.007374994	0.049275148			RBX1
22	40951347	40973309	+	3092		
protein_coding	ring-box 1 [Source:HGNC	Symbol;Acc:HGNC:9928]	-			
922	901	823	628	757	623	16.30745349
12.84751885	12.32999231	9.820223566	10.66878571			
9.405775253						
ENSG00000070404	216.3518334	342.044971	225.8714341			
337.5382826	474.2932764	457.2464321	261.4227462			
423.025997	-0.692928558	0.007382975	0.049289167			FSTL3
19	676365	683399	+	3067	protein_coding	
follistatin like 3 [Source:HGNC	Symbol;Acc:HGNC:3973]	-	187			
369	231	336	519	466	3.334437207	
5.304525581	3.488997512	5.296960299	7.374153602			
7.092807555						
ENSG00000130770	642.11373	892.6539486	936.7308827			
386.7626155	540.0911876	681.944786	823.8328538			
536.2661964	0.619906096	0.007383541	0.049289167			
ATP5IF1 1	28236109	28246906	+	2225		
protein_coding	ATP synthase inhibitory factor	subunit 1 [Source:HGNC				
Symbol;Acc:HGNC:871]	-	555	963	958	385	591
695	13.64136032	19.08227849	19.94517952			
8.366271049	11.57486843	14.58145376				
ENSG00000101974	1948.323462	1695.393637	1802.082481			
1132.159656	1523.404416	1402.156977	1815.266527			
1352.573683	0.423989887	0.007392526	0.049321817			ATP11C
X	139726346	139945276	-	7407		
protein_coding	ATPase phospholipid transporting	11C [Source:HGNC				
Symbol;Acc:HGNC:13554]	-	1684	1829	1843	1127	1667
1429	12.43353025	10.8869272	11.5261813			
7.356695624	9.80735403	9.006082479				
ENSG00000164024	2657.540969	2231.171396	2205.913227			
1986.051145	1665.966557	1755.394564	2364.875197			
1802.470755	0.391585975	0.007396488	0.049321817			METAP1
4	98995620	99062813	+	4117		
protein_coding	methionyl aminopeptidase 1 [Source:HGNC					
Symbol;Acc:HGNC:15789]	-	2297	2407	2256	1977	1823
1789	30.51229264	25.77681064	25.38403653			
23.21811825	19.29587155	20.28502323				
ENSG00000178927	1361.743892	1554.497063	1471.586616			
1721.847073	2071.720342	1951.637668	1462.609191			
1915.068361	-0.388648718	0.007398111	0.049321817			CYBC1
17	82442589	82450829	-	7234		
protein_coding	cytochrome b-245 chaperone 1 [Source:HGNC					
Symbol;Acc:HGNC:28672]	-	1177	1677	1505	1714	2267
1989	8.898005527	10.22088534	9.637412573			

11.45601384	13.65625487	12.83519037				
ENSG00000103496	720.787124	915.8277272	743.1267963			
1030.697256	946.758833	1467.898417	793.2472158			
1148.451502	-0.533198671	0.007406869	0.049358676	STX4		
16	31032889	31042975	+ 4078			
protein_coding	syntaxin 4 [Source:HGNC Symbol;Acc:HGNC:11439]				-	
623	988	760	1026	1036	1496	8.354789994
	10.68178128	8.633140853	12.16469868	11.0705993		
	17.12499321					
ENSG00000151023	65.94681552	113.0880392	17.60037149			
167.7645631	202.8768928	129.5204486	65.5450754			
166.7206348	-1.345690341	0.007410171	0.049359166	ENKUR		
10	24981979	25062279	- 4076			
protein_coding	"enkurin, TRPC channel interacting protein [Source:HGNC Symbol;Acc:HGNC:28388]"				-	
167	222	132	0.764778012	1.319652587		18
0.204569454	1.980995606	2.373435297	1.51177024			
ENSG00000258565	15.04050178	0	17.60037149	0	0	
0	10.88029109	0	5.934502442	0.007414869		
1	BLZF2P	14	68867857	68869951		-
1130	unprocessed_pseudogene basic leucine zipper nuclear factor 2 pseudogene [Source:HGNC Symbol;Acc:HGNC:20049]				-	13
0	18	0	0	0	0.629157853	0
	0.737898313	0	0	0		
ENSG00000159593	2795.219409	2349.821142	2015.242536			
1820.295738	1734.506047	1833.891806	2386.761029			
1796.231197	0.409746566	0.007419033	0.049396674	NAE1		
16	66802875	66873256	- 4810			
protein_coding	NEDD8 activating enzyme E1 subunit 1 [Source:HGNC Symbol;Acc:HGNC:621]				-	
1869	27.4692351	23.23629306	19.84885098			
18.21437751	17.1952989	18.13887136				
ENSG00000120899	69.41770054	113.0880392	53.77891289			
177.8103453	134.337402	165.8254228	78.76155087			
159.32439	-1.013518705	0.007435219	0.049482886	PTK2B		
8	27311482	27459391	+ 7933			
protein_coding	protein tyrosine kinase 2 beta [Source:HGNC Symbol;Acc:HGNC:9612]				-	
169	0.413626646	0.678041591	0.321164616			147
1.078790289	0.807492465	0.994478243				
ENSG00000173597	3.470885027	4.634755704	0.977798416			
17.07782977	47.52071363	7.849724156	3.027813049			
24.14942252	-2.997127724	0.007463995	0.049652782			
SULT1B1	4	69721162	69787961	- 7356		
protein_coding	sulfotransferase family 1B member 1 [Source:HGNC Symbol;Acc:HGNC:17845]				-	
8	0.022303563	0.029968309	0.006297392			52
0.111739936	0.308049296	0.050768497				
ENSG00000146535	4924.028892	4512.398154	6049.638801			
4110.734085	3870.196581	3960.185837	5162.021949			

3980.372167	0.375067319	0.007473838	0.049696637	GNA12
7	2728112	2844324	-	6120
protein subunit alpha 12 [Source:HGNC Symbol;Acc:HGNC:4380]			protein_coding	G
4256	4868	6187	4092	4235
35.06978516	46.83075394	32.32848995	38.03162743	30.15508731
30.78546879				
ENSG00000189212	357.5011578	303.1130231	244.449604	
231.0529911	150.7868798	153.069621	301.6879283	
178.303164	0.75859955	0.007478664	0.0497071	
DPY19L2P1	7	35079989	35186041	-
transcribed_unprocessed_pseudogene			DPY19L2 pseudogene 1	8272
[Source:HGNC Symbol;Acc:HGNC:22305]			309	327
230	165	156	2.042879105	1.742894843
1.400012582	1.344369115	0.869224615	0.880359608	
ENSG00000186907	236.0201818	569.1480005	446.8538762	
729.3237892	710.0691248	616.2033462	417.3406862	
685.1987534	-0.713175289	0.007483922	0.049720432	
RTN4RL2 11	57460549	57477534	+	2387
protein_coding	reticulon 4 receptor like 2 [Source:HGNC			
Symbol;Acc:HGNC:23053]	-	204	614	457
628	4.67382515	11.34096239	8.868828092	777
14.70569039	14.18493002	12.28155226		
ENSG00000174015	0	15.75816939	0.977798416	26.11903377
77.67808958	19.62431039	5.578655937	41.14047791	
-2.858382505	0.007490394	0.049741816	SPERT	13
45702311	45714559	+	2125	protein_coding
spermatid associated [Source:HGNC Symbol;Acc:HGNC:30720]				
-	0	17	1	26
0.352715013	0.021799349	0.591582925	85	20
0.439356542			0	0
ENSG00000114107	447.7441685	326.2868016	484.010216	
168.7691413	297.0044602	291.4210093	419.347062	
252.3982036	0.731252017	0.007493923	0.049743641	CEP70
3	138494344	138594538	-	4420
protein_coding	centrosomal protein 70 [Source:HGNC			
Symbol;Acc:HGNC:29972]	-	387	352	495
297	4.788322669	3.511190171	5.187825809	168
1.837757606	3.204200541	3.136752233		325
ENSG00000147465	18.51138681	4.634755704	3.911193665	0
0	0	9.01911206	0	5.660909064
0.007497782	1	STAR	8	38143649
-	3767	protein_coding	steroidogenic acute regulatory	38151265
protein [Source:HGNC Symbol;Acc:HGNC:11359]				
4	0	0	0	0.232283882
0.049188868	0	0	0	0.058520542
ENSG00000141568	1716.931127	2018.899585	2273.381318	
3025.789605	2547.841338	2437.33935	2003.070676	
2670.323431	-0.414378554	0.00749924	0.049757328	FOXK2
17	82519713	82644662	+	9991
protein_coding	forkhead box K2 [Source:HGNC Symbol;Acc:HGNC:6036]			

Fork	1484	2178	2325	3012	2788	2484	
8.12305988	9.611316404		10.77994274		14.57629755		
12.16024733	11.60616307						
ENSG00000080189	2000.386737		2707.624282		2622.455352		
3608.444974	2989.235659		3163.438835		2443.488791		
3253.706489	-0.412639345		0.007507038		0.049787461		
SLC35C2 20	46345980		46364458		-	7708	
protein_coding	solute carrier family 35 member C2 [Source:HGNC						
Symbol;Acc:HGNC:17117]	-		1729	2921	2682	3592	3271
3224	12.26727214		16.7079747		16.11831071		
22.53179745	18.49257701		19.52537407				
ENSG00000130956	284.6125722		324.4328993		385.252576		
507.3120021	483.4318752		477.851958		331.4326825		
489.5319451	-0.561559138		0.007513		0.049805388		HABP4
9	96450201		96491336		+	4056	
protein_coding	hyaluronan binding protein 4 [Source:HGNC						
Symbol;Acc:HGNC:17062]	-		246	350	394	505	529
487	3.316896145		3.804556657		4.499877916		
6.019974454	5.683506008		5.605018505				
ENSG00000099194	14149.64129		12981.02378		16446.56936		
10455.65013	10788.11585		12658.66142		14525.74481		
11300.80913	0.362188205		0.00752267		0.049847882		SCD
10	100347124		100364834		+	5362	
protein_coding	stearoyl-CoA desaturase [Source:HGNC						
Symbol;Acc:HGNC:10571]	-		12230	14004	16820	10408	11805
12901	124.7367315		115.148756		145.3120527		
93.85160204	95.93957262		112.3162517				
ENSG00000125148	18389.90584		15346.60309		14225.98916		
17879.4832	25228.92964		20415.1701		15987.49936		
21174.52764	-0.405460742		0.007535086		0.049908515		MT2A
16	56608199		56609497		+	1299	
protein_coding	metallothionein 2A [Source:HGNC						
Symbol;Acc:HGNC:7406]	-		15895	16556	14549	17798	27607
669.1848403	561.92742		518.8316349		662.4655029		
926.122983	747.6967259						
ENSG00000143093	1504.050178		1615.675838		1598.70041		
2111.623423	1877.982048		2084.101763		1572.808809		
2024.569078	-0.363957586		0.007540678		0.049911791		STRIP1
1	110031577		110074641		+	7352	
protein_coding	striatin interacting protein 1 [Source:HGNC						
Symbol;Acc:HGNC:25916]	-		1300	1743	1635	2102	2055
2124	9.670135658		10.45263648		10.30183796		
13.82383145	12.18049466		13.48636936				
ENSG00000268942	52.06327541		41.71280134		18.57816991		
5.02289111	9.138598774		11.77458623		37.45141555		
8.645358706	2.111484308		0.007543479		0.049911791		
CKS1BP3 5	62512246		62512482		-	237	
processed_pseudogene	CDC28 protein kinase regulatory subunit 1B						
pseudogene 3 [Source:HGNC	Symbol;Acc:HGNC:24233]						45
45	19	5	10	12	10.38386135		

8.371400616	3.713707637	1.020053323	1.838697357		
2.363626965					
ENSG00000105185	1458.928673	1691.685832	1503.853964		
925.2165425	1238.280134	1253.012218	1551.48949		
1138.836298	0.446115406	0.007546552	0.049911791	PDCD5	
19	32581068	32587452	+ 2253		
protein_coding	programmed cell death 5 [Source:HGNC				
Symbol;Acc:HGNC:8764]	-	1261 1825	1538 921	1355	
1277	30.60896238	35.71376487	31.62260182		
19.76512908	26.20817025	26.45914104			
ENSG00000052795	805.2453263	747.1226195	701.0814644		
902.1112434	1157.860465	1024.389002	751.1498034		
1028.120237	-0.453495283	0.00754864	0.049911791	FNIP2	
4	158769138	158908049	+ 10868		
protein_coding	folliculin interacting protein 2 [Source:HGNC				
Symbol;Acc:HGNC:29280]	-	696 806	717 898	1267	
1044	3.502307891	3.269786301	3.056131109		
3.995102474	5.08025583	4.484323186			
ENSG00000241560	21.98227184	0 10.75578258	0 0		
0	10.91268481	0 5.936891929	0.007549192		
1	ZBTB20-AS1	3 114351811	114388978		
+	2035 antisense	ZBTB20 antisense RNA 1			
[Source:HGNC Symbol;Acc:HGNC:40640]	-	19 0	11		
0	0 0	0.510603633	0 0.250397926		
0	0 0				
ENSG00000166848	2313.923351	2976.440113	2254.803148		
3069.991047	3685.596886	3242.917292	2515.055537		
3332.835075	-0.405967135	0.007552685	0.049916946		
TERF2IP 16	75647786	75761872	+ 3379		
protein_coding	TERF2 interacting protein [Source:HGNC				
Symbol;Acc:HGNC:19246]	-	2000 3211	2306 3056	4033	
3305	32.36953917	41.8973034	31.61357183		
43.72868068	52.01141007	45.65930618			
ENSG00000171094	11.56961676	65.813531	13.68917783		
74.33878843	105.0938859	107.9337071	30.35744186		
95.78879382	-1.64871734	0.007574206	0.050037552	ALK	
2	29192774	29921566	- 7362		
protein_coding	ALK receptor tyrosine kinase [Source:HGNC				
Symbol;Acc:HGNC:427]	-	10 71	14 74	115	
110	0.074284619	0.42520317	0.088091637		
0.486000956	0.68070764	0.697497906			
ENSG00000005175	1323.564157	1182.789656	1134.246163		
953.3447327	954.069712	791.8409242	1213.533325		
899.7517896	0.431167857	0.007591565	0.050115693	RPAP3	
12	47661249	47706061	- 5381		
protein_coding	RNA polymerase II associated protein 3 [Source:HGNC				
Symbol;Acc:HGNC:26151]	-	1144 1276	1160 949	1044	
807	11.62673423	10.4549423	9.986135462		
8.527160489	8.454659163	7.000943593			
ENSG00000105518	274.1999171	325.3598504	246.4052009		

388.7717719	413.9785245	479.814389	281.9883228	
427.5215618	-0.599771081	0.007594072	0.050115693	
TMEM205 19	11342776	11346518	- 1606	
protein_coding	transmembrane protein 205 [Source:HGNC			
Symbol;Acc:HGNC:29631]	-	237 351	252 387	453
489	8.070445663	9.635972092	7.2687119	
11.65109224	12.29168038	14.2137723		
ENSG00000161547	6376.015795	5762.855243	5374.957894	
4456.308993	4767.60698	4695.116261	5837.942977	
4639.677411	0.331282133	0.00759669	0.050115693	SRSF2
17	76734115	76737374	- 3017	
protein_coding	serine and arginine rich splicing factor 2			
[Source:HGNC	Symbol;Acc:HGNC:10783]	-	5511 6217	5497
4436	5217 4785	99.89639446	90.85305078	
84.40202813	71.0914617	75.35362062	74.0376572	
ENSG00000119640	114.5392059	136.2618177	143.7363672	
42.19228532	68.53949081	80.4596726	131.5124636	
63.73048291	1.045137786	0.007599148	0.050115693	ACYP1
14	75053221	75069483	- 1841	
protein_coding	acylphosphatase 1 [Source:HGNC	Symbol;Acc:HGNC:179]		
-	99 147	147 42	75 82	
2.940871975	3.520444518	3.698843888	1.103053859	
1.77527678	2.079247077			
ENSG00000066651	629.3871516	659.9892123	548.5449115	
473.1563426	388.3904479	424.8663199	612.6404251	
428.8043701	0.515056757	0.007608325	0.050154576	TRMT11
6	125986430	126203817	+ 5771	
protein_coding	tRNA methyltransferase 11 homolog [Source:HGNC			
Symbol;Acc:HGNC:21080]	-	544 712	561 471	425
433	5.155164619	5.4395488	4.503127491	
3.946126919	3.209197561	3.502538017		
ENSG00000183010	864.2503718	1312.562815	1121.534783	
1511.890224	1381.756135	1714.183513	1099.449324	
1535.94329	-0.481367378	0.007619876	0.050189335	PYCR1
17	81932384	81942412	- 2886	
protein_coding	pyrroline-5-carboxylate reductase 1 [Source:HGNC			
Symbol;Acc:HGNC:9721]	-	747 1416	1147 1505	1512
1747	14.15529706	21.63220971	18.41066802	
25.21397917	22.83042847	28.25807764		
ENSG00000161526	1624.374193	1901.17679	1825.549643	
2187.971368	2401.623758	2302.912824	1783.700209	
2297.50265	-0.36487453	0.007620164	0.050189335	
SAP30BP 17	75667116	75708062	+ 8268	
protein_coding	SAP30 binding protein [Source:HGNC			
Symbol;Acc:HGNC:30785]	-	1404 2051	1867 2178	2628
2347	9.286698639	10.93702363	10.46035216	
12.73674999	13.85107531	13.25130523		
ENSG00000162614	327.4201542	230.8108341	220.9824421	
139.6363729	94.12756737	193.2994573	259.7378101	
142.3544659	0.867252099	0.007624296	0.050194923	NEXN

1	77888513	77943895	+	4436	
protein_coding	nexilin F-actin binding protein	[Source:HGNC			
Symbol;Acc:HGNC:29557]	-	283 249	226	139	103
197	3.488908749	2.474809461	2.360039965		
1.515041326	1.011822389	2.073102257			
ENSG00000171056	70.57466222	79.71779811	111.4690194		
55.25180221	23.76035681	18.64309487	87.25382659		
32.5517513	1.425685389	0.007645685	0.050314069		SOX7
8	10723768	10730512	-	3216	
protein_coding	SRY-box 7	[Source:HGNC			
Symbol;Acc:HGNC:18196]					HMG
61	86	114	55	26	19
1.179006961	1.642068489	0.82689024	0.352302647		
0.275793227					
ENSG00000257219	57.84808379	44.49365476	10.75578258		
82.37541421	105.0938859	122.6519399	37.69917371		
103.3737467	-1.460262714	0.007655796	0.050358933		
LINC02407	12	76259839	76305131	+	1201
lincRNA	long intergenic non-protein coding RNA	2407			
[Source:HGNC					
Symbol;Acc:HGNC:53336]	-	50	48		11
82	115	125	2.276783365	1.762106641	
0.424279583	3.301201711	4.172664151	4.858621207		
ENSG00000152642	1187.042679	975.1526002	1174.335898		
885.0334136	823.3877496	746.7050103	1112.177059		
818.3753912	0.442192957	0.007661065	0.050371913		GPD1L
3	32105689	32168713	+	4802	
protein_coding	glycerol-3-phosphate dehydrogenase 1 like	[Source:HGNC			
Symbol;Acc:HGNC:28956]	-	1026 1052	1201	881	901
761	11.68476326	9.65889716	11.58572745		
8.8706403	8.176383121	7.397901369			
ENSG00000065548	2436.561289	2525.014908	2083.688425		
1811.254534	1899.000825	1726.939314	2348.421541		
1812.398225	0.373689231	0.007673906	0.050434655		ZC3H15
2	186486156	186509363	+	3125	
protein_coding	zinc finger CCCH-type containing 15	[Source:HGNC			
Symbol;Acc:HGNC:29528]	-	2106 2724	2131	1803	2078
1760	36.85556369	38.43182778	31.58900044		
27.89632034	28.97704661	26.29109546			
ENSG00000255458	19.66834849	2.780853423	4.888992081		0
0	0	9.11273133	0	5.675255406	
0.007683737	1	AC108471.2	4	39639140	
39666644	+	2301	lincRNA novel transcript		-
17	3	5	0	0	0.404042468
0.05748289	0.100659749	0	0	0	
ENSG00000105339	151.5619795	150.1660848	251.294193		
72.32963199	97.78300688	116.7646468	184.3407524		
95.6257619	0.947167588	0.007689903	0.050476849		DENND3
8	141117278	141195808	+	14670	
protein_coding	DENN domain containing 3	[Source:HGNC			
Symbol;Acc:HGNC:29134]	-	131 162	257	72	107
119	0.488355288	0.486876551	0.811531656		

0.237303202	0.317842715	0.37867173				
ENSG00000148225	78.67339395	85.27950496	107.5578258			
164.7508284	143.4760008	194.2806729	90.50357489			
167.5025007	-0.886493343	0.007690963	0.050476849	WDR31		
9	113313222	113340298	-	4933		
protein_coding	WD repeat domain 31 [Source:HGNC					
Symbol;Acc:HGNC:21421]	-	68	92	110	164	157
198	0.753863142	0.822262851	1.032961239			
1.607436957	1.386906344	1.873700232				
ENSG00000198938	31749.3423	41972.34766	52026.69813			
54188.95845	50394.80294	68184.66645	41916.12936			
57589.47595	-0.458273719	0.007693218	0.050476849	MT-C03		
MT	9207	9990	+	784	protein_coding	
mitochondrially	encoded cytochrome c oxidase III [Source:HGNC					
Symbol;Acc:HGNC:7422]	-	27442	45280	53208	53942	55145
69490	1914.231286	2546.386443	3143.86094			
3326.688972	3065.128428	4137.636028				
ENSG00000130396	1513.305872	1319.978425	1456.91964			
1052.797977	1058.249738	1154.890666	1430.067979			
1088.646127	0.393271072	0.007693534	0.050476849	AFDN		
6	167826922	167972023	+	13720		
protein_coding	"afadin, adherens junction formation factor					
[Source:HGNC	Symbol;Acc:HGNC:7137]"	-	1308	1424	1490	
1048	1158	1177	5.213727701	4.576040251		
5.030771742	3.693247289	3.678011186	4.004685242			
ENSG00000263680	11.56961676	8.342560268	5.866790497	0		
0	0	8.592989174	0	5.594481407		
0.00770414	1	AC007639.1	17	72425939		
72428852	+	833	lincRNA novel transcript			-
10	9	6	0	0	0	0.656522646
0.476355809	0.333663503	0	0	0	0	
ENSG00000260536	13.88354011	11.12341369	1.955596832	0		
0	0	8.987516877	0	5.658860764		
0.007795914	1	AL035071.2	20	32843128		
32854257	-	459	antisense	"novel transcript,		
antisense to MAPRE1"	-	12	12	2	0	0
0	1.42976043	1.15266344	0.201845823	0		
0	0					
ENSG00000111817	966.0629992	852.7950496	1041.355313			
699.1864425	691.7919272	719.2309758	953.404454			
703.4031152	0.438568512	0.007804199	0.051180949	DSE		
6	116254173	116444860	+	19193		
protein_coding	dermatan sulfate epimerase [Source:HGNC					
Symbol;Acc:HGNC:21144]	-	835	920	1065	696	757
733	2.379240396	2.113386467	2.570450236			
1.753345862	1.718745658	1.782818562				
ENSG00000135912	651.3694234	768.4424958	632.6355753			
1008.596535	872.7361829	929.2110969	684.1491648			
936.8479383	-0.4528511	0.007825168	0.051296457	TTL4		
2	218710845	218755416	+	7685		

protein_coding	tubulin tyrosine ligase like 4 [Source:HGNC						
Symbol;Acc:HGNC:28976]	-	563	829	647	1004	955	
947	4.006445467	4.756030343	3.899984353				
6.316711724	5.415244844	5.752440602					
ENSG00000243156	461.6277086	661.8431146	738.2378042				
1154.260377	685.3949081	1005.745907	620.5695425				
948.4670642	-0.61069314	0.007830641	0.051296823			MICAL3	
22	17787649	18024559	-	22354			
protein_coding	"microtubule associated monooxygenase, calponin and						
LIM domain containing 3 [Source:HGNC Symbol;Acc:HGNC:24694]"	-						
399	714	755	1149	750	1025	0.976140567	
1.408240802	1.564566982	2.48522663	1.462058044				
2.140497153							
ENSG00000273033	349.4024261	247.4959546	258.1387819				
546.4905528	374.6825497	417.9978113	285.0123875				
446.3903046	-0.648690783	0.007832499	0.051296823				
LINC02035	3	122886941	122892416	+		5476	
lincRNA long intergenic non-protein coding RNA 2035							
[Source:HGNC Symbol;Acc:HGNC:52875]	-	302	267			264	
544	410	426	3.016047773	2.14971942			
2.2332788	4.803266427	3.262714064	3.6315514				
ENSG00000151320	64.78985384	75.08304241	50.84551764				
132.6043253	170.8917971	93.21547435	63.57280463				
132.2371989	-1.056916921	0.007839189	0.051296823			AKAP6	
14	32329273	32837681	+	19748			
protein_coding	A-kinase anchoring protein 6 [Source:HGNC						
Symbol;Acc:HGNC:376]	-	56	81	52	132	187	
95	0.155081367	0.180840566	0.121978329				
0.32318562	0.412645474	0.224567303					
ENSG00000259431	34.70885027	69.52133556	38.13413823				
164.7508284	72.19493032	104.9900606	47.45477469				
113.9786064	-1.258883594	0.007845926	0.051296823			THTPA	
14	23555988	23560271	+	2894			
protein_coding	thiamine triphosphatase [Source:HGNC						
Symbol;Acc:HGNC:18987]	-	30	75	39	164	79	
107	0.566914338	1.142606511	0.624264353				
2.739974606	1.189562219	1.725962226					
ENSG00000171148	2687.621973	3172.026804	3131.888327				
3533.101607	3980.773626	3975.885285	2997.179035				
3829.920173	-0.353484337	0.007846654	0.051296823			TADA3	
3	9779860	9793011	-	4234		protein_coding	
transcriptional	adaptor 3 [Source:HGNC Symbol;Acc:HGNC:19422]						
2323	3422	3203	3517	4356	4052	30.00496116	
35.6338797	35.04358598	40.16268427	44.83277439				
44.67500593							
ENSG00000134686	5610.107166	7308.082794	6676.407586				
7753.334718	8698.118313	8681.794916	6531.532515				
8377.749316	-0.35898511	0.007851744	0.051296823			PHC2	
1	33323623	33431052	-	4975			
protein_coding	polyhomeotic homolog 2 [Source:HGNC						

Symbol;Acc:HGNC:3183]	-	4849	7884	6828	7718	9518
8848	53.303265	69.86947637		63.57741752		
75.00891883	83.37027099	83.02293163				
ENSG00000105705	625.9162666	929.7319943		803.7502981		
1345.130239	875.4777626	1232.406692		786.4661863		
1151.004898	-0.548256777	0.007851843		0.051296823		SUGP1
19	19276018	19320844		-	5356	
protein_coding	SURP and G-patch domain containing 1 [Source:HGNC					
Symbol;Acc:HGNC:18643]	-	541	1003	822	1339	958
1256	5.523971249	8.256468392		7.109412362		
12.08763187	7.794415236	10.94699972				
ENSG00000106105	7836.10143	7379.458032		6374.267875		
9332.531683	9535.213961	8462.983855		7196.609112		
9110.243166	-0.340266444	0.007852068		0.051296823		GARS
7	30594681	30634033		+	4152	
protein_coding	glycyl-tRNA synthetase [Source:HGNC					
Symbol;Acc:HGNC:4162]	-	6773	7961	6519	9290	10434
8625	89.21100738	84.53649493		72.73209411		
108.1831408	109.5095729	96.97232196				
ENSG00000117122	579.6377995	699.8481113		862.4182031		
377.7214115	509.0199517	546.5370443		713.968038		
477.7594692	0.579949108	0.007855643		0.051298254		MFAP2
1	16974502	16980835		-	2915	
protein_coding	microfibril associated protein 2 [Source:HGNC					
Symbol;Acc:HGNC:7033]	-	501	755	882	376	557
557	9.399264683	11.41937541		14.01627087		
6.236637508	8.326744403	8.919955174				
ENSG00000159714	500.9644056	957.5405285		754.8603773		
1112.068092	1156.032745	1025.370218		737.7884371		
1097.823685	-0.572007552	0.007871512		0.051379935		ZDHHC1
16	67394152	67416833		-	3540	
protein_coding	zinc finger DHHC-type containing 1 [Source:HGNC					
Symbol;Acc:HGNC:17916]	-	433	1033	772	1107	1265
1045	6.689279569	12.86562882		10.10221237		
15.1197836	15.57205257	13.78031244				
ENSG00000100297	3397.996442	4032.237463		4494.939319		
3051.908639	2785.444906	3294.921714		3975.057741		
3044.091753	0.385237752	0.007874899		0.051380104		MCM5
22	35400063	35425430		+	7338	
protein_coding	minichromosome maintenance complex component 5					
[Source:HGNC Symbol;Acc:HGNC:6948]	-			2937	4350	4597
3038	3048	3358	21.88874954	26.13638432		
29.02012322	20.01756644	18.10072011		21.3623497		
ENSG0000010361	547.2428726	680.3821374		640.4579626		
843.8457065	806.0244119	929.2110969		622.6943242		
859.6937384	-0.464289377	0.007885609		0.051414177		FUZ
19	49806869	49817376		-	2950	
protein_coding	fuzzy planar cell polarity protein [Source:HGNC					
Symbol;Acc:HGNC:26219]	-	473	734	655	840	882
947	8.768672248	10.97003471		10.28541311		

13.76760783	13.02882248	14.98559526						
ENSG00000134250	10071.35139	9027.577161	11318.01667					
13913.40838	11837.22699	12939.28906	10138.98174					
12896.64147	-0.347077258	0.007886848	0.051414177	NOTCH2				
1	119911553	120069626	-	16807				
protein_coding	notch 2 [Source:HGNC Symbol;Acc:HGNC:7882]				-			
8705	9739	11575	13850	12953	13187	28.32521977		
25.54807155	31.9031272	39.84380352	33.58449043					
36.62704162								
ENSG00000180573	238.3341052	282.720098	199.4708769					
453.0647781	323.5063966	363.0497422	240.1750267					
379.873639	-0.660551456	0.007894092	0.051439467					
HIST1H2AC	6	26124145	26139116	+		1668		
	protein_coding histone cluster 1 H2A family member c							
	[Source:HGNC Symbol;Acc:HGNC:4733]				-	206	305	204
451	354	370	6.754075123	8.061906389				
5.665478254	13.07319418	9.248383143	10.3550384					
ENSG00000116171	1797.918444	1651.826933	1517.543142					
1325.038675	1326.010682	1086.20558	1655.76284					
1245.751646	0.410152955	0.007905686	0.051493063	SCP2				
1	52927229	53051703	+	8305				
protein_coding	sterol carrier protein 2 [Source:HGNC							
Symbol;Acc:HGNC:10606]	-	1554	1782	1552	1319	1451		
1107	10.23307343	9.460237094	8.656743229					
7.679030194	7.613535435	6.222344038						
ENSG00000108523	1136.136366	1811.262529	1479.409004					
2042.307525	1796.648519	2379.447635	1475.602633					
2072.801226	-0.489497515	0.007918411	0.051553085	RNF167				
17	4940008	4945222	+	2744	protein_coding	ring		
finger protein 167	[Source:HGNC Symbol;Acc:HGNC:24544]				-	982		
1954	1513	2033	1966	2425	19.57140903			
31.3960065	25.54213975	35.82238425	31.2218048					
41.25472265								
ENSG00000144152	112.2252825	99.18377207	308.9842995					
34.15565955	96.86914701	80.4596726	173.4644514					
70.49482638	1.298286151	0.007921646	0.051553085	FBLN7				
2	112138385	112188216	+	6578				
protein_coding	fibulin 7 [Source:HGNC Symbol;Acc:HGNC:26740]				-			
97	107	316	34	106	82	0.80644096		
0.717172894	2.225336387	0.249911513	0.702215795					
0.581923665								
ENSG00000277342	0	7.415609127	2.933395248	53.24264577				
15.53561792	13.73701727	3.449668125	27.50509365					
-2.963025456	0.007931673	0.051579025	AC048344.4					
12	32109076	32109602	+	527				
sense_intronic	"novel transcript, sense intronic to BICD1"				-			
0	8	3	53	17	14	0		
0.669288449	0.263701801	4.862576769	1.405713786					
1.240119271								
ENSG00000167680	350.5593877	598.810437	651.2137452					

802.6579994	831.6124884	789.8784932	533.5278566	
808.0496603	-0.597268506	0.00793238	0.051579025	SEMA6B
19	4542593	4559808	-	4412
protein_coding				protein_coding
semaphorin 6B [Source:HGNC Symbol;Acc:HGNC:10739]				-
646	666	799	910	805
6.455516154	6.992640178	8.756135872	3.755794637	8.988029441
8.517387626				
ENSG00000134070	566.9112211	624.7650689	600.3682275	
306.3963577	509.9338116	371.8806819	597.3481725	
396.0702837	0.592248197	0.00793887	0.051599279	IRAK2
3	10164865	10243743	+	3483
protein_coding	interleukin 1 receptor associated kinase 2			
[Source:HGNC Symbol;Acc:HGNC:6113]				-
305	558	379	490	674
8.16614999	4.233968098	6.981348568	8.531794377	614
ENSG00000133739	749.7111659	701.7020136	567.1230814	
461.1014039	539.1773277	368.9370353	672.8454203	
456.4052556	0.559157753	0.007961736	0.051725904	LRRCC1
8	85107147	85146076	+	5065
protein_coding	leucine rich repeat and coiled-coil centrosomal			
protein 1 [Source:HGNC Symbol;Acc:HGNC:29373]				-
580	459	590	376	6.996651926
5.304579953	4.381617398	5.076111577	3.465408458	6.589468523
ENSG00000158373	146.9341328	92.69511408	50.84551764	
176.8057671	181.8581156	228.623216	96.82492151	
195.7623662	-1.019885642	0.007990926	0.051878297	
HIST1H2BD	6	26158146	26171349	+
protein_coding	histone cluster 1 H2B family member d			
[Source:HGNC Symbol;Acc:HGNC:4747]				-
176	199	233	7.974074313	5.061926128
2.765589034	9.770026221	9.956197868	12.48773867	
ENSG00000228335	0	3.707804563	5.866790497	26.11903377
23.76035681	21.58674143	3.191531687	23.822044	
-2.872683105	0.007991979	0.051878297	AC073063.1	
7	99442890	99443496	-	607
processed_pseudogene	cytokine induced protein 29 kDa (CIP29)			
pseudogene				-
0	0.290539549	0.457894066	2.071027537	26
1.866565587	1.691920785			26
ENSG00000197747	3281.143312	3862.605404	3945.416609	22
1454.629265	2793.669645	3184.044361	3696.388442	
2477.447757	0.577243403	0.007995808	0.051881116	
S100A10 1	151982915	151994390	-	1543
protein_coding	S100 calcium binding protein A10 [Source:HGNC			
Symbol;Acc:HGNC:10487]				-
3245	100.5159573	119.0670332	121.1379079	4035
45.37366417	86.33524194	98.17362128		1448
ENSG00000272405	480.1390954	391.1733814	596.4570339	3057
802.6579994	552.8852258	879.1691054	489.2565036	
744.9041102	-0.60631082	0.00801402	0.05197723	

AL365181.3	1	156641666	156644887	-	3222
	antisense	"novel transcript, antisense to BCAN"			-
	415	422	610	799	605 896
	5.774586256	8.770144615	11.99009046	8.182545639	
	12.98160856				
ENSG0000057149	0	0	0	18.082408	0
14.71823279	0	10.93354693	-5.869095804	0.008016589	
	1	SERPINB3	18	63655197	63661963
	-	1777	protein_coding	serpin family B member 3	
[Source:HGNC Symbol;Acc:HGNC:10569]			-	0	0 0
	18	0	15	0	0
	0	0.394048671			0.489763362
ENSG00000150403	1552.642569	1484.975728	1527.321126		
1148.232908	1217.261357	1168.627684	1521.646474		
1178.040649	0.369050583	0.008024543	0.052023405	TMC03	
	13	113490995	113554590	+	10407
protein_coding	transmembrane and coiled-coil domains 3 [Source:HGNC				
Symbol;Acc:HGNC:20329]	-	1342	1602	1562	1143 1332
	1191	7.052152156	6.786891638	6.952771085	
5.310334671	5.577470321	5.34234884			
ENSG00000267198	17.35442514	0	14.66697624	0	0
	0	10.67380046	0	5.906100205	0.008031882
	1	AC091132.4	17	45545804	45563230
	+	2278	lincRNA	novel transcript	- 15
	0	15	0	0	0.360107571 0
	0.305028202	0	0	0	
ENSG00000113649	2561.51315	2441.589305	2774.991905		
2139.751613	2035.165947	1920.238772	2592.69812		
2031.718777	0.351762192	0.008063052	0.052233665	TCERG1	
	5	146447311	146511961	+	8714
protein_coding	transcription elongation regulator 1 [Source:HGNC				
Symbol;Acc:HGNC:15630]	-	2214	2634	2838	2130 2227
	1957	13.89487914	13.3269931	15.0868055	
11.81852462	11.13682151	10.48381397			
ENSG00000167333	386.4251997	417.1280134	346.1406393		
504.2982675	595.8366401	551.4431219	383.2312841		
550.5260098	-0.522697988	0.008063809	0.052233665	TRIM68	
	11	4598672 4608259	-	4282	protein_coding
tripartite motif	containing 68 [Source:HGNC Symbol;Acc:HGNC:21161]				
	-	334	450	354	502 652 562
4.265741328	4.633400154	3.829649737	5.668371042		
6.635284221	6.126828				
ENSG00000122140	910.5288388	1311.635864	1065.800274		
1459.652157	1523.404416	1491.44759	1095.988326		
1491.501387	-0.443697663	0.008083175	0.052312168	MRPS2	
	9	135499984	135504673	+	2464
protein_coding	mitochondrial ribosomal protein S2 [Source:HGNC				
Symbol;Acc:HGNC:14495]	-	787	1415	1090	1453 1667
	1520	17.46741914	25.31918338	20.49218416	
28.51189791	29.48176595	28.79711099			

ENSG00000166685	1014.65539	1157.761975	973.8872225	
1518.922272	1267.52365	1406.081839	1048.768196	
1397.509254	-0.413710752	0.008085496	0.052312168	COG1
17	73192632	73208507	+ 5317	
protein_coding	component of oligomeric golgi complex 1 [Source:HGNC			
Symbol;Acc:HGNC:6545]	-	877 1249	996 1512	1387
1433	9.020438415	10.35689888	8.677510221	
13.74948233	11.36758993	12.58130138		
ENSG00000110075	3329.735703	2752.117937	3061.486841	
2263.314734	2559.721517	2286.23216	3047.78016	
2369.756137	0.362671881	0.008086194	0.052312168	PPP6R3
11	68460731	68615334	+ 8305	
protein_coding	protein phosphatase 6 regulatory subunit 3			
[Source:HGNC Symbol;Acc:HGNC:1173]	-	2878 2969		3131
2253	2801 2330	18.95159931	15.76175305	
17.46408702	13.11664521	14.69711423	13.09671329	
ENSG00000108559	1859.237413	1839.998015	2251.869752	
1471.707095	1550.820212	1537.564719	1983.701727	
1520.030675	0.384171213	0.008090316	0.05231669	NUP88
17	5360963 5420160	- 5294	protein_coding	
nucleoporin 88	[Source:HGNC Symbol;Acc:HGNC:8067]			
1985	2303 1465	1697 1567	16.6007096	1607
16.53143417	20.15173562	13.37996275	13.96871649	
13.81755161				
ENSG00000026508	12451.22155	11904.8335	13365.52655	
7851.783383	10001.2825	11130.90885	12573.86054	
9661.324912	0.380109497	0.008099136	0.052349207	CD44
11	35138870	35232402	+ 10004	
protein_coding	CD44 molecule (Indian blood group) [Source:HGNC			
Symbol;Acc:HGNC:1681]	-	10762 12843	13669 7816	10944
11344	58.83205485	56.6013458	63.29443336	
37.77566202	47.67173948	52.93447018		
ENSG000000267481	0	3.707804563	11.73358099	33.15108133
29.24351608	33.36132766	5.147128519	31.91864169	
-2.613678009	0.008102193	0.052349207	AC011477.2	
19	19788755	19790531	- 921	
sense_intronic	"novel transcript, sense intronic to ZNF506"			
0	4 12	33 32	34 0	-
0.191484806	0.603565033	1.732429324	1.514080429	
1.723317597				
ENSG00000071082	6227.9247	9326.055428	7631.716638	
7976.351083	11372.07231	13147.30675	7728.565589	
10831.91005	-0.486917186	0.008121633	0.05245264	RPL31
2	101001715	101024032	+ 5791	
protein_coding	ribosomal protein L31 [Source:HGNC			
Symbol;Acc:HGNC:10334]	-	5383 10061	7805 7940	12444
13399	50.83531601	76.59872522	62.43409175	
66.29307344	93.64078273	108.0102218		
ENSG00000185650	3541.459689	3878.363573	3541.585863	
4667.27042	4355.456176	4674.510735	3653.803042	

4565.745777	-0.321309164	0.008144787	0.052579963	
ZFP36L1 14	68787660	68796253	-	5160
protein_coding	ZFP36 ring finger protein like 1 [Source:HGNC			
Symbol;Acc:HGNC:1107]	Others	3061	4184	3622 4646
	4764	32.44205384	35.74999062	32.51630587
43.53421526	40.24972654	43.09908866		
ENSG00000151849	266.1011854	269.742782	358.8520187	
176.8057671	144.3898606	219.7922764	298.2319954	
180.3293014	0.726859299	0.008157349	0.052638833	CENPJ
13	24882284	24922889	-	5812
protein_coding	centromere protein J [Source:HGNC			
Symbol;Acc:HGNC:17272]	-	230	291	367 176
	224	2.16419776	2.207503198	2.925114795
1.464159126	1.184650055	1.799154455		
ENSG00000273102	28.92404189	11.12341369	8.800185745	0
0	2.943646558	16.28254711	0.981215519	
4.059374208	0.008170554	1	AP000569.1	21
33967101	33968573	-	591	lincRNA novel
transcript	-	25	12	9 0 0
	2.313381406	0.895215768	0.705435781	0
	0.236962602			
ENSG00000091140	2162.361372	2118.083357	1760.037149	
1359.194334	1601.082505	1615.080745	2013.493959	
1525.119195	0.400513758	0.008170838	0.052703632	DLD
7	107890970	107931730	+	5299
protein_coding	dihydrolipoamide dehydrogenase [Source:HGNC			
Symbol;Acc:HGNC:2898]	-	1869	2285	1800 1353
	1646	19.28901694	19.01193159	15.7355179
12.34539794	14.40783679	14.50046559		
ENSG00000234678	61.31896881	61.1787753	39.11193665	
18.082408	12.79403828	22.56795695	53.86989359	
17.81480108	1.597635745	0.008181396	0.052729997	ELF3-
AS1 1	201995696	202010463	-	5569
antisense	ELF3 antisense RNA 1 [Source:HGNC			
Symbol;Acc:HGNC:40211]	-	53	66	40 18
	23	0.520467199	0.522517302	0.332724843
0.156277517	0.109549252	0.192795394		
ENSG00000076321	814.5010197	798.1049323	692.2812786	
1102.02231	998.848846	998.8773988	768.2957435	
1033.249518	-0.427646873	0.008183966	0.052729997	KLHL20
1	173714941	173786702	+	4254
protein_coding	kelch like family member 20 [Source:HGNC			
Symbol;Acc:HGNC:25056]	-	704	861	708 1097
	1018	9.050444017	8.923590323	7.709713293
12.46838944	11.19647395	11.17111		
ENSG00000203364	8.09873173	0	0	25.11445555
33.81281546	17.66187935	2.699577243		
25.52971679	-3.30020255	0.008188533	0.052729997	
AL390760.1	9	93147040	93148556	+
	lincRNA novel transcript	-	7	0
				410
				0

25	37	18	0.933703305	0	0	
2.948202896	3.932570029		2.049437527			
ENSG00000166741	1088.700937		1304.220255	1445.186059		
952.3401545	954.9835719		945.8917608	1279.369084		
951.071829	0.428350833		0.008188723	0.052729997		NNMT
11	114257787		114313285	+	2919	
protein_coding	nicotinamide N-methyltransferase		[Source:HGNC			
Symbol;Acc:HGNC:7861]	-		941	1407	1478	948
964	17.62991592		21.25171389	23.45539737		1045
15.70274069	15.60058174		15.41661315			
ENSG00000092010	1919.39942		1548.935356	1908.662508		
888.0471483	1548.078632		1312.866365	1792.332428		
1249.664049	0.51979368		0.008192416	0.052731562		PSME1
14	24136158		24138967	+	1781	
protein_coding	proteasome activator subunit 1		[Source:HGNC			
Symbol;Acc:HGNC:9568]	-		1659	1671	1952	884
1338	50.94213933		41.36628201	50.77130772		1694
23.99880197	41.44842995		35.07019897			
ENSG00000115687	503.2783289		612.7147041	645.3469547		
424.9365879	362.8023713		433.6972596	587.1133292		
407.1454063	0.529226706		0.008197818	0.052744125		PASK
2	241106099		241150264	-	10686	
protein_coding	PAS domain containing serine/threonine kinase		[Source:HGNC			
Symbol;Acc:HGNC:17270]	-			435	661	660
423	397	442	2.22622369	2.727220468		
2.861088037	1.913931605		1.618951858	1.930870446		
ENSG00000274386	10.41265508		5.561706845	14.66697624		
52.23806755	15.53561792		60.83536221	10.21377939		
42.86968256	-2.070772642		0.008232434	0.052944563		
TMEM269	1	42785007	42816619	+	4373	
protein_coding	transmembrane protein 269		[Source:HGNC			
Symbol;Acc:HGNC:52381]	-		9	6	15	52
62	0.112553174		0.060493085	0.158896466		17
0.574943387	0.169405709		0.66184798			
ENSG00000130349	275.3568788		380.9769189	303.117509		
368.6802075	535.5218882		594.6166048	319.8171022		
499.6062335	-0.642596134		0.008248344	0.053024573		
C6orf203	6	107028213	107051342	+		2036
protein_coding	chromosome 6 open reading frame 203		[Source:HGNC			
Symbol;Acc:HGNC:17971]	-			238	411	310
367	586	606	6.392840899	8.900163936		
7.053202877	8.715443806		12.54233626	13.89443484		
ENSG00000164330	78.67339395		74.15609127	132.0027862		
46.21059821	41.12369448		36.30497422	94.94409047		
41.21308897	1.204873921		0.008256412	0.053043415		EBF1
5	158695916		159099761	-	6178	
protein_coding	early B cell factor 1		[Source:HGNC			
Symbol;Acc:HGNC:3126]	COE		68	80	135	46
37	0.601943489		0.57092103	1.012251247		45
0.360007165	0.317411902		0.27957598			

ENSG00000283689	49.74935206	58.39792187	39.11193665	
94.43035287	108.7493254	109.8961382	49.08640353	
104.3586055	-1.087782983	0.008258215	0.053043415	
AC018553.2	16	54285604	54289568	+ 1064
antisense		"novel transcript, antisense to IRX3"		-
43	63	40	94	119 112 2.210148935
	2.610555192	1.741489335	4.271569158	4.873757665
	4.913856058			
ENSG00000181333	9.255693406	1.853902282	15.64477466	0
0	0	8.918123449	0	5.64856094
0.008269563	1	HEPHL1	11	94021361 94113751
+	5345	protein_coding	hephaestin like 1	[Source:HGNC
Symbol;Acc:HGNC:30477]	-	8	2	16 0 0
0	0.08185345	0.016497428	0.138667514	0
0	0			
ENSG00000112378	1080.602205	995.5455253	823.3062664	
1196.452662	1368.962096	1350.152555	966.4846656	
1305.189105	-0.434035023	0.008272851	0.053115106	PERP
6	138088505	138107511	-	4290
protein_coding	"PERP, TP53 apoptosis effector [Source:HGNC			
Symbol;Acc:HGNC:17637]"	-	934	1074	842 1191 1498
1376	11.90650495	11.03776001	9.09195453	
13.4231884	15.21644214	14.97294322		
ENSG0000010327	38.1797353	37.07804563	58.66790497	
16.07325155	8.224738897	14.71823279	44.6418953	
13.00540775	1.783073935	0.008279069	0.053132714	STAB1
3	52495338	52524495	+	10588
protein_coding	stabilin 1 [Source:HGNC Symbol;Acc:HGNC:18628]		-	
33	40	60	16	9 15 0.170449103
	0.166563568	0.262506326	0.073064643	0.037041381
	0.066133782			
ENSG00000153993	77.51643227	42.63975248	44.97872714	
6.027469332	10.05245865	29.43646558	55.04497063	
15.17213119	1.857722741	0.008298025	0.05323202	SEMA3D
7	84995553	85186855	-	8062
protein_coding	semaphorin 3D [Source:HGNC Symbol;Acc:HGNC:10726]			
-	67	46	46	6 11 30
0.454492501	0.251564292	0.264312373	0.035984019	
0.059457753	0.173709871			
ENSG00000128609	1966.834849	1670.365956	1496.031577	
1227.594587	1358.909638	1277.542606	1711.07746	
1288.01561	0.40919701	0.008326674	0.0533934	NDUFA5
7	123536997	123558255	-	9851
protein_coding	NADH:ubiquinone oxidoreductase subunit A5 [Source:HGNC			
Symbol;Acc:HGNC:7688]"	-	1700	1802	1530 1222 1487
1302	9.437638	8.065075281	7.194714543	
5.997801705	6.577929994	6.169879767		
ENSG00000140939	681.450427	859.2837076	758.7715709	
1068.871228	901.0658391	1231.425477	766.5019018	
1067.120848	-0.476472102	0.008340782	0.053442703	NOL3

16	67170154	67175735	+	2992	
protein_coding	nucleolar protein 3 [Source:HGNC Symbol;Acc:HGNC:7869]				
-	589	927	776	1064	986 1255
10.76585233	13.66004415	12.01441386			17.19417154
14.36064424	19.58069815				
ENSG00000138356	1099.113592	1079.898079			887.8409619
1357.185178	1275.748389	1462.99234			1022.284211
1365.308635	-0.417618243	0.008341355			0.053442703 AOX1
2	200585868	200677064	+	5556	
protein_coding	aldehyde oxidase 1 [Source:HGNC Symbol;Acc:HGNC:553]				
-	950	1165	908	1351	1396 1491
9.350957453	9.244802684	7.570526208			11.75694072
10.94918463	12.52741435				
ENSG00000166847	2119.55379	2246.002614			2124.755958
2777.658784	2631.916447	2761.140472			2163.437454
2723.571901	-0.332024271	0.008349957			0.053475406 DCTN5
16	23641392	23677455	+	12740	
protein_coding	dynactin subunit 5 [Source:HGNC Symbol;Acc:HGNC:24594]				
-	1832	2423	2173	2765	2880 2814
7.864131267	8.385287241	7.901194525			10.49365844
9.851030359	10.31099796				
ENSG00000164654	1227.536338	983.4951604			1056.022289
828.7770332	705.4998254	859.5447951			1089.017929
797.9405512	0.448334615	0.008355044			0.053485574 MIOS
7	7566872	7608929	+	6714	protein_coding
meiosis regulator for oocyte development [Source:HGNC					
Symbol;Acc:HGNC:21905]	-	1061	1061	1080	825 772
876	8.642288495	6.967356055			7.45152005
5.941195291	5.010655692	6.090722389			
ENSG00000229751	0	1.853902282	0		27.12361199
8.224738897	7.849724156	0.617967427			
14.39935835	-4.469579264	0.008359956	1		AC044781.1
10	13991815	14007526	+	570	
antisense	novel transcript				
27	9	8	0	0.154699567	0
2.290288144	0.688059906	0.655180808			
ENSG00000141576	386.4251997	443.0826453			632.6355753
367.6756293	288.7797213	277.683992			487.3811401
311.3797808	0.647436618	0.008365068			0.05352733 RNF157
17	76142453	76240373	-	7805	
protein_coding	ring finger protein 157 [Source:HGNC				
Symbol;Acc:HGNC:29402]	-	334	478	647	366 316
283	2.34028243	2.700156567			3.840023031
2.267302122	1.764301377	1.692620373			
ENSG00000138430	3426.920483	2982.928771			2915.794877
2281.397142	2579.826434	2432.433273			3108.548044
2431.21895	0.354233722	0.00837579			0.053573518 OLA1
2	174072447	174248698	-	6100	
protein_coding	Obg like ATPase 1 [Source:HGNC Symbol;Acc:HGNC:28833]				
-	2962	3218	2982	2271	2823 2479

26.55522172	23.25895309	22.64541375	18.0006636	
20.16692304	18.97110936			
ENSG00000162434	3923.257042	3129.387052	3695.100215	
2824.87396	2858.553697	2711.09848	3582.581436	
2798.175379	0.356257205	0.008392822	0.053660005	JAK1
1	64833229	64966504	- 6317	
protein_coding	Janus kinase 1	[Source:HGNC Symbol;Acc:HGNC:6190]		
-	3391 3376	3779 2812	3128 2763	
29.35699681	23.56272524	27.71203832	21.52314126	
21.57816279	20.41813373			
ENSG00000164332	1335.133774	1114.195271	1032.555127	
881.0151007	839.8372273	860.5260106	1160.628058	
860.4594462	0.431164566	0.008402818	0.053701454	UBLCP1
5	159263081	159286040	+ 2676	
protein_coding	ubiquitin like domain containing	CTD phosphatase 1		
[Source:HGNC Symbol;Acc:HGNC:28110]	-	1154	1202	1056
877	919 877	23.58383417	19.80397259	
18.28017146	15.84581936	14.96538865	15.29887584	
ENSG00000115649	851.5237933	1256.018796	1052.111096	
1458.647578	1362.565077	1511.0719	1053.217895	
1444.094852	-0.454368086	0.008419932	0.05378834	CNPPD1
2	219171897	219178106	- 2760	
protein_coding	cyclin Pas1/PH080 domain containing	1 [Source:HGNC		
Symbol;Acc:HGNC:25220]	-	736 1355	1076 1452	1491
1540	14.58355638	21.64532799	18.05949679	
25.43658185	23.54112206	26.04699787		
ENSG00000113273	679.1365036	621.0572644	650.2359467	
533.4310359	445.9636202	384.6364836	650.1432383	
454.6770466	0.515840063	0.008429449	0.053826646	ARSB
5	78777209	78986087	- 9053	
protein_coding	arylsulfatase B	[Source:HGNC Symbol;Acc:HGNC:714]		
-	587 670	665 531	488 392	
3.546012757	3.262993738	3.402762051	2.835980349	
2.349015591	2.021340988			
ENSG00000216906	8.09873173	10.19646255	6.844588913	0
0	0	8.379927731	0	5.560275282
0.008452695	1	AL355312.1	6	149904243
149906418	+ 2176	processed_pseudogene	multimerin 2	
(MMRN2) pseudogene	-	7 11	7 0	0
0	0.175927553	0.222878282	0.149018986	0
0	0			
ENSG00000123572	6.941770054	18.53902282	15.64477466	0
1.827719755	0	13.70852251	0.609239918	
4.451377042	0.008456296	1	NRK	X 105822543
105958610	+ 9573	protein_coding	Nik related	
kinase [Source:HGNC Symbol;Acc:HGNC:25391]	-	6	20	
16	0 2	0	0.034276613	0.092111933
0.077423782	0	0.009104174	0	
ENSG00000137996	1214.80976	1361.691226	1336.650435	
965.3996714	1041.80026	979.2530884	1304.383807	

995.48434	0.390120713	0.008476404	0.054103875	RTCA
1	100266207	100292769	+ 3037	
protein_coding	RNA 3'-terminal	phosphate cyclase	[Source:HGNC	
Symbol;Acc:HGNC:17981]	-	1050 1469	1367 961	1140
998	18.90772251	21.32607646	20.85096592	
15.29959069	16.35756509	15.34022696		
ENSG00000103126	1086.387013	1446.04378	1372.828976	
1593.26106	2016.888749	1681.8034	1301.753257	
1763.984403	-0.437898149	0.008481642	0.054114714	AXIN1
16	287440 352673	- 7487	protein_coding	axin 1
[Source:HGNC Symbol;Acc:HGNC:903]		-	939 1560	1404
1586	2207 1714	6.858868426	9.186513619	
8.68683816	10.24227816	12.84556165	10.68683294	
ENSG00000052749	4432.32018	4877.616903	5094.329748	
6847.205161	5289.42097	6372.013583	4801.422277	
6169.546572	-0.361525882	0.008511113	0.054280092	RRP12
10	97356358	97426076	- 8529	
protein_coding	ribosomal RNA	processing 12	homolog [Source:HGNC	
Symbol;Acc:HGNC:29100]	-	3831 5262	5210 6816	5788
6494	24.56454647	27.2011138	28.2971088	
38.63960551	29.57256573	35.54350121		
ENSG00000174990	0 0	0 15.06867333	2.741579632	
8.830939675	0	8.880397546	-5.568955838	
0.008518118	1 CA5A	16 87881546	87936580	
-	8140	protein_coding	carbonic anhydrase 5A	
[Source:HGNC Symbol;Acc:HGNC:1377]		-	0 0 0	
15	3 9	0 0	0 0.089098024	
0.016060366	0.051613599			
ENSG00000115641	407.2505099	275.3044888	190.6706912	
454.0693564	483.4318752	480.7956045	291.0752299	
472.765612	-0.702130024	0.00853651	0.054419361	FHL2
2	105357712	105438513	- 6626	
protein_coding	four and a half	LIM domains 2	[Source:HGNC	
Symbol;Acc:HGNC:3703]	-	352 297	195 452	529
490	2.905266288	1.976236771	1.363281796	
3.298285304	3.479067366	3.452158158		
ENSG00000214063	605.0909564	859.2837076	1074.600459	
520.371519	532.7803085	646.6210273	846.3250411	
566.5909516	0.579798874	0.008543818	0.054443245	TSPAN4
11	842808 867116	+ 5841	protein_coding	
tetraspanin 4 [Source:HGNC Symbol;Acc:HGNC:11859]		-		523
927	1099 518	583 659	4.896764245	
6.99723542	8.715914112	4.287891327	4.34950612	
5.266768679				
ENSG00000133195	448.9011302	617.3494598	407.7419395	
715.2596941	857.200565	617.1845617	491.3308432	
729.8816069	-0.570394307	0.008549056	0.054453927	
SLC39A11	17 72645949	73092712	-	5583
protein_coding	solute carrier	family 39	member 11	
[Source:HGNC Symbol;Acc:HGNC:14463]		-	388 666	417

712	938	629	3.800658165	5.259452768	
3.459958446	6.166142858		7.321394494	5.25931343	
ENSG0000024422	3600.464735		3629.940668	3822.214009	
4043.427344	4704.550649		5651.801392	3684.20647	
4799.926462	-0.381645569		0.008573804	0.054588814	EHD2
19	47713343		47743134	+ 3923	
protein_coding	EH domain containing 2 [Source:HGNC				
Symbol;Acc:HGNC:3243]	-		3112 3916	3909 4025	5148
5760	43.38264159		44.01070576	46.15830134	
49.60766586	57.1845658		68.54096445		
ENSG00000197713	1278.442652		1129.02649	1138.157356	
967.4088278	860.8560045		836.9768381	1181.875499	
888.4138901	0.411510076		0.00860221	0.054732588	RPE
2	210002565		210022259	+ 3522	
protein_coding	ribulose-5-phosphate-3-epimerase [Source:HGNC				
Symbol;Acc:HGNC:10293]	-		1105 1218	1164 963	942
853	17.15803855		15.24726311	15.30967899	
13.22020385	11.65521123		11.30591498		
ENSG00000154380	1727.343782		1342.225252	1855.861394	
1365.221804	1081.096235		1158.815528	1641.810143	
1201.711189	0.45012519		0.008603546	0.054732588	ENAH
1	225486835		225653142	- 15044	
protein_coding	"ENAH, actin regulator [Source:HGNC				
Symbol;Acc:HGNC:18271]"	-		1493 1448	1898 1359	1183
1181	5.427392069		4.243646456	5.844338192	
4.367745737	3.426731033		3.664650894		
ENSG00000060688	1812.958946		1511.857311	1714.080624	
1389.331681	1293.111727		1122.510554	1679.632293	
1268.317987	0.404924828		0.008615473	0.054763951	
SNRNP40 1	31259568		31296782	- 3881	
protein_coding	small nuclear ribonucleoprotein U5 subunit 40				
[Source:HGNC Symbol;Acc:HGNC:30857]	-			1567 1631	1753
1383	1415 1144		22.08106756	18.52867127	
20.92380814	17.22978086		15.88807916	13.76031632	
ENSG00000168701	799.4605179		996.4724764	693.2590771	
1188.416037	1129.530808		1112.698399	829.7306905	
1143.548415	-0.462337293		0.008615641	0.054763951	
TMEM208 16	67227103		67229278	+ 1787	
protein_coding	transmembrane protein 208 [Source:HGNC				
Symbol;Acc:HGNC:25015]	-		691 1075	709 1183	1236
1134	21.14697285		26.52270835	18.37909567	
32.00821154	30.14064321		29.62337511		
ENSG00000183828	27.76708022		42.63975248	61.60130022	
137.6272164	116.0602044		63.77900877	44.00271097	
105.8221432	-1.261965068		0.008620368	0.054771222	NUDT14
14	105172938		105181323	- 1916	
protein_coding	nudix hydrolase 14 [Source:HGNC Symbol;Acc:HGNC:20141]				
-	24 46		63 137	127 65	
0.685031354	1.058513216		1.523166925	3.457214127	
2.888463034	1.583667075				

ENSG0000013374	1026.225006	1111.414418	1024.73274			
1248.69073	1423.793689	1492.428805	1054.124055			
1388.304408	-0.397159736	0.008643696	0.054896626			NUB1
7	151341699	151378449	+ 5411			
protein_coding	negative regulator of ubiquitin like proteins 1					
[Source:HGNC Symbol;Acc:HGNC:17623]	-		887 1199			1048
1243	1558 1521	8.964803995	9.769573557			
8.971936776	11.10694986	12.54724901	13.12192998			
ENSG00000187531	601.6200714	799.0318834	846.7734284			
1021.656052	1082.923955	1005.745907	749.1417944			
1036.775305	-0.467792189	0.008657051	0.054958614			SIRT7
17	81911939	81921323	- 6152			
protein_coding	sirtuin 7 [Source:HGNC Symbol;Acc:HGNC:14935]					-
520	862 866	1017 1185	1025 4.622551194			
6.177672726	6.52084716	7.992926928	8.393838738			
7.77742745						
ENSG0000090861	7016.972563	7831.810189	7077.304936			
11004.14984	8094.970794	9164.552952	7308.695896			
9421.22453	-0.366201308	0.008670011	0.055018043			AARS
16	70252295	70289543	- 4498			
protein_coding	alanyl-tRNA synthetase [Source:HGNC					
Symbol;Acc:HGNC:20]	-	6065 8449	7238 10954			8858
9340	73.7404981	82.81706152	74.54209312			
117.748261	85.81729526	96.9334033				
ENSG00000109756	795.9896329	943.6362614	1083.400645			
768.5023398	498.9674931	680.9635705	941.0088465			
649.4778011	0.535888684	0.008683717	0.055082151			
RAPGEF2 4	159103013	159360174	+ 13275			
protein_coding	Rap guanine nucleotide exchange factor 2 [Source:HGNC					
Symbol;Acc:HGNC:16854]	-	688 1018	1108 765			546
694	2.834318302	3.381015846	3.866408051			
2.786301584	1.792324786	2.440455969				
ENSG00000266094	573.8529912	429.1783782	578.8566624			
398.8175541	357.3192121	308.1016731	527.2960106			
354.7461464	0.571236985	0.008695223	0.055132255			RASSF5
1	206507530	206589448	+ 6976			
protein_coding	Ras association domain family member 5 [Source:HGNC					
Symbol;Acc:HGNC:17609]	-	496 463	592 397			391
314	3.888390893	2.926230126	3.931132577			
2.751599687	2.442468004	2.101208805				
ENSG00000185432	42.807582	26.88158308	83.11286537			
20.09156444	2.741579632	14.71823279	50.93401015			
12.51712562	2.030442154	0.008711643	0.055213467			
METTL7A 12	50923472	50932517	+ 4083			
protein_coding	methyltransferase like 7A [Source:HGNC					
Symbol;Acc:HGNC:24550]	-	37 29	85 20			3
15	0.495583749	0.313150115	0.964366247			
0.236838244	0.032018462	0.171497548				
ENSG00000111554	301.9669974	361.5109449	407.7419395			
286.3047933	207.4461922	155.0320521	357.0732939			

216.2610125	0.724554732	0.008744489	0.055398676	MDM1
12	68272443	68332381	- 6549	
protein_coding	Mdm1 nuclear protein [Source:HGNC			
Symbol;Acc:HGNC:29917]	-	261 390	417 285	227
158	2.179516844	2.625569837	2.949602688	
2.104122818	1.51046082	1.126232699		
ENSG00000179409	1962.207002	2381.337481	2334.982618	
2950.446238	2665.729262	2979.951533	2226.1757	
2865.375678	-0.36370818	0.008766462	0.055514877	GEMIN4
17	744414 753999	- 5751	protein_coding	gem
nuclear organelle associated protein 4 [Source:HGNC				
Symbol;Acc:HGNC:15717]	-	1696 2569	2388 2937	2917
3037	16.12787665	19.69494148	19.23505403	
24.69231425	22.10302217	24.65173328		
ENSG00000119801	809.873173	710.971525	585.7012513	
783.5710132	1172.482223	1076.393425	702.1819831	
1010.815554	-0.526491426	0.008775886	0.055532171	YPEL5
2	30146941	30160533	+ 3421	
protein_coding	yippee like 5 [Source:HGNC			
Symbol;Acc:HGNC:18329]	-	599 780	1283 1097	
11.19024715	9.884990306	8.111033666	11.02408987	
16.34301502	14.96923441			
ENSG00000114626	400.3087398	548.7550754	470.3210382	
663.0216265	624.1662963	741.7989327	473.1282845	
676.3289518	-0.514084685	0.008776459	0.055532171	ABTB1
3	127672935	127680920	+ 6149	
protein_coding	ankyrin repeat and BTB domain containing 1			
[Source:HGNC				
Symbol;Acc:HGNC:18275]	-	346 592		481
660	683 756	3.07727507	4.24474076	
3.623623263	5.189680947	4.840328181	5.739358304	
ENSG00000041802	2311.609428	2423.977233	2263.603333	
3070.995625	2873.175455	2851.4123	2333.063332	
2931.861126	-0.329490438	0.008782902	0.055549947	LSG1
3	194640788	194672477	- 4818	
protein_coding	large 60S subunit nuclear export GTPase 1 [Source:HGNC			
Symbol;Acc:HGNC:25652]	-	1998 2615	2315 3057	3144
2906	22.67897389	23.92978824	22.25802652	
30.67819895	28.43638198	28.15625243		
ENSG00000172238	0 0	3.911193665	22.10072088	
9.138598774	22.56795695	1.303731222		
17.93575887	-3.757991952	0.008783641	1	ATOH1 4
93828753	93830964	+	2212	protein_coding
atonal bHLH transcription factor 1 [Source:HGNC				
Symbol;Acc:HGNC:797]	bHLH	0 0	4 22	10
23	0 0	0.083767841	0.480882281	
0.197003288	0.48538768			
ENSG00000178691	3159.662336	2914.334387	2925.572861	
2399.937372	2543.272039	2098.819996	2999.856528	
2347.343136	0.353650797	0.008791566	0.055581746	SUZ12
17	31937018	32001045	+ 6547	

protein_coding	"SUZ12, polycomb repressive complex 2 subunit [Source:HGNC Symbol;Acc:HGNC:17101]"	-	2731	3144	2992
2389	2783	2139	22.81256252	21.17259813	
21.17004124	17.64310527		18.52377355	15.25156744	
ENSG00000149428	2841.497876		2442.516256	4441.160406	
2399.937372	1597.427066		2567.841014	3241.724846	
2188.401818	0.567058593		0.008802057	0.05562507	HYOU1
11	119044189		119057202	-	7694
protein_coding	hypoxia up-regulated 1 [Source:HGNC Symbol;Acc:HGNC:16931]	-	2456	2635	1748
2617	17.4570515		15.09949406	27.34622632	
15.01292048	9.900288356		15.87806504		
ENSG00000158352	16.19746346		4.634755704	4.888992081	0
0	0	8.573737082	0	5.588444939	
0.008802807	1	SHROOM4 X	50591647	50814302	
-	10333	protein_coding	shroom family member 4		
[Source:HGNC Symbol;Acc:HGNC:29215]	-	14	5	5	
0	0	0	0.074096265	0.021334258	
0.022415376	0	0	0		
ENSG00000230309	13.88354011		5.561706845	5.866790497	0
0	0	8.437345817	0	5.566421111	
0.008808061	1	AL121718.1	6	78604467	
78606036	-	387	lincRNA novel transcript	-	
12	6	6	0	0	1.69576237
0.683556226		0.718195602	0	0	0
ENSG00000160172	129.5797077		152.9469382	112.4468179	
240.0941951	296.0906003		163.8629918	131.6578213	
233.3492624	-0.825659818		0.008816054	0.055690506	
FAM86C2P	11	67791648	67805336	-	3402
transcribed_unprocessed_pseudogene				"family with sequence	
similarity 86 member C2, pseudogene [Source:HGNC Symbol;Acc:HGNC:42392]"	-	112	165	115	239
167	1.800439059		2.138373644	1.565907077	324
3.396759574	4.150202605		2.291543985		
ENSG00000125166	4433.477141		3876.509671	4021.684886	
3419.584268	3298.120298		3084.941593	4110.557233	
3267.54872	0.330958251		0.008821636	0.055702747	GOT2
16	58707131		58734357	-	3766
protein_coding	glutamic-oxaloacetic transaminase 2 [Source:HGNC Symbol;Acc:HGNC:4433]	-	3832	4182	3609
3144	55.64676187		48.95957856	50.59188367	
43.7029197	41.76044945		38.9716019		
ENSG00000252657	15.04050178		5.561706845	4.888992081	0
0	0	8.497066903	0	5.576087734	
0.008827696	1	RF00156	17	29777619	29777744
+	126	snoRNA	-	13	6
0	0	0	5.64244741	2.099494123	5
1.838238743	0	0	0		
ENSG00000232774	3.470885027		9.269511408	12.71137941	0
0	0	8.483925282	0	5.580305571	

0.008829428	1	FLJ22447	14	61570540	
61658696	+	2653	lincRNA uncharacterized	LOC400221	
[Source:NCBI gene;Acc:400221]	-		3	10	13 0
0	0	0.061841315	0.16618687	0.226990958	
0	0	0			
ENSG00000227440	3.470885027	9.269511408	12.71137941	0	
0	0	8.483925282	0	5.580305571	
0.008829428	1	ATP5MC1P4	3	172828736	
172829176	-	441	processed_pseudogene	ATP synthase	
membrane subunit c locus 1 pseudogene 4 [Source:HGNC					
Symbol;Acc:HGNC:39507]	-	3	10	13	0 0
0	0.3720295	0.999759106	1.36554878	0	
0	0				
ENSG00000171155	600.4631097	640.5232383	572.0120735		
373.7030986	428.6002825	475.8895269	604.3328072		
426.0643027	0.504262462	0.008855661	0.055874461		
C1GALT1C1	X	120625793	120630150	-	1785
protein_coding	C1GALT1	specific chaperone 1 [Source:HGNC			
Symbol;Acc:HGNC:24338]	-	519	691	585	372 469
485	15.90097849	17.06765222	15.18168938		
10.07641245	11.4496766	12.68380492			
ENSG00000105875	277.6708022	460.694717	447.8316746		
331.5108133	158.0977588	188.3933797	395.3990646		
226.0006506	0.80903474	0.008856141	0.055874461		WDR91
7	135183839	135211534	-	6032	
protein_coding	WD repeat domain 91 [Source:HGNC				
Symbol;Acc:HGNC:24997]	-	240	497	458	330 173
192	2.175928505	3.63269565	3.517277233		
2.645171431	1.249808195	1.485887508			
ENSG00000198324	146.9341328	263.254124	283.5615407		
365.6664728	352.7499127	426.828751	231.2499325		
381.7483788	-0.72038482	0.008862967	0.055892769		PHETA1
12	111360651	111369121	-	3361	
protein_coding	PH domain containing endocytic trafficking adaptor 1				
[Source:HGNC Symbol;Acc:HGNC:26509]	-		127	284	290
364	386	435	2.066473885	3.72549329	
3.996979688	5.236415355	5.004692401	6.041806058		
ENSG00000206503	2149.634793	2996.833038	3017.485912		
1395.35915	2244.439859	2115.50066	2721.317915		
1918.433223	0.504493055	0.008866355	0.055892769		HLA-A
6	29941260	29945884	+	2710	
protein_coding	"major histocompatibility complex, class I, A				
[Source:HGNC Symbol;Acc:HGNC:4931]"	-		1858	3233	3086
1389	2456	2156	37.49480778	52.59813818	
52.75080441	24.78187553	39.49277667	37.13859771		
ENSG00000272872	28.92404189	38.00499677	32.26734773		
103.4715569	40.20983461	114.8022158	33.06546213		
86.16120242	-1.378451926	0.008885259	0.055988851		
AP000525.1	22	15823197	15823890	+	694
sense_intronic	"novel transcript, sense intronic to novel				

transcript"	-	25	41	33	103	44	117
1.970040938		2.604703804		2.20270798		7.175942841	
2.762814991		7.869958226					
ENSG00000185728	3647.900164		3148.853025		3008.685727		
4282.51696	4606.767642		3741.374776		3268.479639		
4210.219793	-0.365560261		0.008893975		0.056020683		YTHDF3
8	63168553		63212786		+ 6163		
protein_coding	YTH N6-methyladenosine RNA binding protein 3						
[Source:HGNC Symbol;Acc:HGNC:26465]			-		3153	3397	3077
4263	5041	3813	27.97863456		24.30173815		
23.12798432	33.44447488		35.64372854		28.88156173		
ENSG00000120256	143.4632478		71.37523785		91.91305112		
24.10987733	54.83159264		48.07956045		102.2505123		
42.34034348	1.267542029		0.008912937		0.056111523		LRP11
6	149818798		149864026		- 5652		
protein_coding	LDL receptor related protein 11 [Source:HGNC						
Symbol;Acc:HGNC:16936]			-		124	77	60
49	1.199814883		0.60065145		0.770421078		
0.205310096	0.462602201		0.404706298				
ENSG00000047644	1094.485745		983.4951604		1194.869665		
879.0059443	812.421431		734.9304241		1090.95019		
808.7859331	0.431679977		0.008915738		0.056111523		WWC3
X	10015562		10144478		+ 7114		
protein_coding	WWC family member 3 [Source:HGNC						
Symbol;Acc:HGNC:29237]			-		946	1061	889
749	7.272303383		6.575601427		7.957191332		
5.946965358	5.445609533		4.914892154				
ENSG00000177700	367.9138129		799.9588346		756.8159741		
297.3551537	332.6449954		511.2132856		641.5628738		
380.4044782	0.755241509		0.008929467		0.05617317		POLR2L
11	837356	842545	-	1142	protein_coding		RNA
polymerase II subunit L	[Source:HGNC Symbol;Acc:HGNC:9199]						
318	863	774	296	364	521	15.22845095	
33.31797897	31.39621631		12.53218576		13.88973236		
21.29696196							
ENSG00000233184	409.5644332		269.742782		203.3820706		
167.7645631	152.6145995		189.3745953		294.2297619		
169.9179193	0.790508447		0.008932883		0.05617317		
AC093157.1	1	101025878		101087268		+ 2840	
antisense	uncharacterized LOC102606465 [Source:NCBI						
gene;Acc:102606465]			-		354	291	167
193	6.816785597		4.517608656		3.392715561		
2.843147215	2.562457841		3.17237855				
ENSG00000120306	554.1846427		424.5436225		378.4079871		
625.8522323	725.6047427		618.1657773		452.3787507		
656.5409174	-0.539034677		0.008939807		0.056193596		CYSTM1
5	140174642		140282052		+ 2371		
protein_coding	cysteine rich transmembrane module containing 1						
[Source:HGNC Symbol;Acc:HGNC:30239]			-		479	458	387
623	794	630	11.04838176		8.516632		

7.561045767	12.70450385	14.59309959	12.40380789	
ENSG00000102900	2990.745932	2911.553533	3024.330501	
2721.402403	2070.806482	2001.67966	2975.543322	
2264.629515	0.393993598	0.008944055	0.05619719	NUP93
16	56730105	56850286	+ 11136	
protein_coding	nucleoporin 93	[Source:HGNC Symbol;Acc:HGNC:28958]		
-	2585 3141	3093 2709	2266 2040	
12.69480511	12.43576974	12.8662846	11.76199524	
8.867256698	8.551592171			
ENSG00000063245	3800.619105	5423.591125	6128.840473	
7331.411864	6073.512745	7491.580491	5117.683567	
6965.5017	-0.4444827	0.008950749	0.056216146	EPN1
19	55675226	55709858	+ 17616	
protein_coding	epsin 1	[Source:HGNC Symbol;Acc:HGNC:21604]		
3285	5851 6268	7298 6646	7635 10.19818263	-
14.6439	16.48254014	20.03077598	16.44037173	
20.23241738				
ENSG00000198948	168.9164047	141.8235245	108.5356242	
253.1537119	243.0867274	211.9425522	139.7585178	
236.0609972	-0.758240261	0.008957747	0.056236995	MFAP3L
4	169986597	170033031	- 8741	
protein_coding	microfibril associated protein 3 like	[Source:HGNC Symbol;Acc:HGNC:29083]		
216	0.913453509	0.771728019	0.588253222	266
1.393928947	1.326108669	1.153555958		
ENSG00000110917	4425.37841	4068.388557	5294.778424	
3552.188593	3691.993905	3516.676422	4596.181797	
3586.952973	0.357661283	0.008969841	0.056289804	MLEC
12	120686869	120701864	+ 6723	
protein_coding	malectin	[Source:HGNC Symbol;Acc:HGNC:28973]		
3825	4389 5415	3536 4040	3584 31.11451537	-
28.78302451	37.31107873	25.4302343	26.18646356	
24.88576098				
ENSG00000259354	45.12150535	27.80853423	31.28954932	
6.027469332	4.569299387	13.73701727	34.73986297	
8.111261997	2.099265443	0.008974773	0.056297645	
AC025580.2	15 45448427	45513767	+ 3886	
antisense	"novel transcript, antisense to SLC30A4"			
-	39 30	32 6	5 14	
0.548853608	0.340370895	0.381460556	0.074653414	
0.056069387	0.16817881			
ENSG00000172006	93.71389573	86.2064561	62.57909863	
153.700468	156.270039	142.2762503	80.83315016	
150.7489191	-0.900866851	0.008981826	0.056318776	ZNF554
19	2819874 2835773	+ 4685	protein_coding zinc	
finger protein 554	[Source:HGNC Symbol;Acc:HGNC:26629]			zf-C2H2 81
93	64 153	171 145	0.94551873	
0.875200005	0.632809273	1.579003352	1.590541895	
1.444789055				
ENSG00000100139	1240.262916	1833.509357	1945.818848	

2472.267004	2101.877718	2340.199014	1673.19704	
2304.781245	-0.461301536	0.009031682	0.056608171	
MICALL1 22	37905657	37942822	+ 5968	
protein_coding	MICAL like 1 [Source:HGNC Symbol;Acc:HGNC:29804]			
-	1072 1978	1990 2461	2300 2385	
9.823374104	14.61273238	15.4463801	19.93811129	
16.7941342	18.65544465			
ENSG00000162878	31.23796524	48.20145932	128.0915925	
28.12819022	12.79403828	23.54917247	69.1770057	
21.49046699	1.691021255	0.009051343	0.056686043	PKDCC
2	42048020	42058528	+ 3925	
protein_coding	"protein kinase domain containing, cytoplasmic [Source:HGNC Symbol;Acc:HGNC:25123]"			
-			27 52	131
28	14 24	0.376200021	0.584114034	
1.546087576	0.34492096	0.15543434	0.28544183	
ENSG00000111961	1043.579431	834.2560268	997.3543845	
789.5984825	524.5555696	704.512743	958.3966142	
672.8889317	0.510329415	0.009051523	0.056686043	SASH1
6	148272304	148552050	+ 11143	
protein_coding	SAM and SH3 domain containing 1 [Source:HGNC Symbol;Acc:HGNC:19182]			
-		902 900	1020 786	574
718	4.426893966	3.561019377	4.240338207	
3.410528099	2.244751961	3.007934324		
ENSG00000151233	753.1820509	653.5005543	772.4607488	
586.6736817	515.4169709	446.4530614	726.381118	
516.181238	0.492661745	0.009056602	0.056694627	GXYLT1
12	42081845	42144879	- 7497	
protein_coding	glucoside xylosyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:27482]			
-		651 705	790 584	564
455	4.748847141	4.146059822	4.881373468	
3.766400968	3.278311302	2.833152303		
ENSG00000073417	1293.483153	1313.489767	1522.432134	
1128.141343	1050.938859	924.3050193	1376.468351	
1034.461741	0.41228194	0.009079508	0.05681475	PDE8A
15	84980440	85139145	+ 7886	
protein_coding	phosphodiesterase 8A [Source:HGNC Symbol;Acc:HGNC:8793]			
-		1118 1417	1557 1123	1150
942	7.7531778	7.922222497	9.146065255	
6.885321123	6.354767494	5.576223417		
ENSG00000279145	35.86581195	26.88158308	33.24514615	
95.43493109	63.05633154	72.60994844	31.99751373	
77.03373702	-1.269315101	0.009095538	0.056891769	
AC011912.1	15 55171378	55176739	-	5362
lincRNA	TEC			
-		31 29	34 95	69
74	0.316176507	0.238454293	0.293734232	
0.856639335	0.560764973	0.644244836		
ENSG00000227165	5.784808379	10.19646255	8.800185745	0
0	0	8.260485558 0	5.540774389	
0.009125402	1	WDR11-AS1 10	120761812	
120851345	-	4685 antisense	WDR11 antisense RNA 1	

[Source:HGNC Symbol;Acc:HGNC:27437]	-	5	11	9
0	0	0	0.058365354	0.10351828
0.088988804	0	0	0	
ENSG00000095383	145.7771711	268.8158308	178.9371102	
311.4192488	281.4688422	412.1105182	197.8433707	
334.9995364	-0.757026836	0.009148018	0.057196629	TBC1D2
9	98198999	98255721	-	3681
protein_coding	TBC1 domain family member 2	[Source:HGNC		
Symbol;Acc:HGNC:18026]	-	126	290	183
420	1.871972396	3.473490684	2.30296707	308
4.071899897	3.646225272	5.326347643		
ENSG00000102226	2672.581471	2948.631579	2837.571004	
3547.165702	3313.655916	3792.397983	2819.594685	
3551.0732	-0.33254684	0.009164928	0.057278925	USP11
X	47232690	47248328	+	5269
protein_coding	ubiquitin specific peptidase 11	[Source:HGNC		
Symbol;Acc:HGNC:12609]	-	2310	3181	2902
3865	23.97609739	26.61763274	25.51359547	3626
32.40191926	29.98873862	34.24264753		
ENSG00000275963	0	0.926951141	0.977798416	21.09614266
7.310879019	10.79337071	0.634916519	13.06679747	
-4.310239479	0.009168067	1	AC008115.4	12
12648939	12649713	+	775	lincRNA novel
transcript	-	0	1	1
0	0.056889518	0.059772408	1.310143326	11
0.449828411	0.66257801			
ENSG00000129315	2199.384146	1721.348269	1588.922426	
2824.87396	2319.376369	2263.664203	1836.551613	
2469.304844	-0.427548113	0.009176962	0.057330697	CCNT1
12	48688458	48716998	-	7381
protein_coding	cyclin T1	[Source:HGNC		
Symbol;Acc:HGNC:1599]	-	1901	1857	1625
1901	1857	1625	2812	2538
11.09253113	10.19860134	18.42049632	2307	14.0851548
14.59077717			14.98425	
ENSG00000130741	4604.707469	4423.410844	4507.650699	
3879.681093	3488.203152	3510.789129	4511.923004	
3626.224458	0.315279435	0.009182683	0.057343002	EIF2S3
X	24054716	24077971	+	3472
protein_coding	eukaryotic translation initiation factor 2 subunit	gamma	[Source:HGNC	
Symbol;Acc:HGNC:3267]	-	4610	3862	3817
4610	3862	3817	3578	62.68997091
61.50687535	53.78160633	47.90722785	48.10682065	
ENSG00000122707	321.6353458	144.604378	277.6947502	
123.5631213	73.10879019	177.600009	247.978158	
124.7573068	0.990688159	0.009207432	0.057474074	RECK
9	36036433	36124451	+	6045
protein_coding	reversion inducing cysteine rich protein with kazal	motifs	[Source:HGNC	
Symbol;Acc:HGNC:11345]	-	284	123	80
284	123	80	181	2.515030195
2.176328707	0.983807259	0.576703092	1.137790363	
			1.397746153	

ENSG00000115073	944.0807274	1062.286007	885.885365	
1215.539649	1201.725739	1457.105046	964.0840333	
1291.456811	-0.421469151	0.009214707	0.057494289	ACTR1B
2	97655963	97664107	- 2892	
protein_coding	ARP1 actin related protein 1 homolog B [Source:HGNC			
Symbol;Acc:HGNC:168]	-	816 1146	906 1210	1315
1485	15.43073393	17.47110151	14.51217026	
20.2296467	19.81463433	23.97034037		
ENSG00000181104	3284.614197	2483.302106	3154.377691	
2480.30363	2248.095298	2049.75922	2974.097998	
2259.38605	0.396291462	0.009218192	0.057494289	F2R
5	76716043	76735781	+ 4066	
protein_coding	coagulation factor II thrombin receptor [Source:HGNC			
Symbol;Acc:HGNC:3537]	-	2839 2679	3226 2469	2460
2089	38.18499438	29.04954251	36.75356277	
29.35992434	26.36491227	23.98375072		
ENSG00000079999	2605.477694	2692.793064	2540.320285	
3509.996308	3172.921494	3154.607895	2612.863681	
3279.175232	-0.327618691	0.009251243	0.057676896	KEAP1
19	10486120	10503741	- 3761	
protein_coding	kelch like ECH associated protein 1 [Source:HGNC			
Symbol;Acc:HGNC:23177]	-	2252 2905	2598 3494	3472
3215	32.7461137	34.05467667	31.99913725	
44.91803857	40.22860574	39.90466596		
ENSG00000212694	69.41770054	36.15109449	70.40148596	
4.018312888	12.79403828	31.39889662	58.65676033	
16.07041593	1.866385852	0.009259745	0.05770637	
LINC01089	12	121795267	121803906	- 4132
lincRNA	long intergenic non-protein coding RNA 1089			
[Source:HGNC Symbol;Acc:HGNC:27886]	-	60	39	72
4	14	32	0.794119116	0.41613884
0.807187893	0.046805932	0.147647576	0.361522808	
ENSG00000158555	266.1011854	388.392528	324.6290742	
495.2570635	410.323085	586.7668806	326.3742625	
497.4490097	-0.606149068	0.009279725	0.057771049	GDPD5
11	75434640	75525903	- 9867	
protein_coding	glycerophosphodiester phosphodiesterase domain			
containing 5 [Source:HGNC Symbol;Acc:HGNC:28804]	-			230
419	332	493	449	598
1.872245747	1.558674432	2.415811296	1.274786397	1.982986742
2.829189852				
ENSG00000232119	1758.581747	1529.469382	1878.350757	
1329.056988	1334.235421	1309.922718	1722.133962	
1324.405042	0.378668424	0.009279853	0.057771049	MCTS1
X	120594010	120621074	+ 2837	
protein_coding	"MCTS1, re-initiation and release factor [Source:HGNC			
Symbol;Acc:HGNC:23357]"	-	1520 1650	1921 1323	1460
1335	29.30076538	25.64239385	31.36681951	
22.54767285	22.42601549	21.96685917		
ENSG00000174804	194.3695615	138.11572	229.7826278	

118.5402302	78.59194946	107.9337071	187.4226364	
101.6886289	0.882569042	0.009283322	0.057771049	FZD4
11	86945679	86955391	-	7383
protein_coding	frizzled class receptor 4 [Source:HGNC			
Symbol;Acc:HGNC:4042]	-	168	149	235
110	1.244431873	0.889789667	1.474475123	118
0.772770181	0.507603	0.695513962		86
ENSG0000072364	3920.943119	3166.465097	3000.863339	
5333.305781	4325.2988	3807.116216	3362.757185	
4488.573599	-0.416824808	0.00928524	0.057771049	AFF4
5	132875379	132963634	-	11297
protein_coding	AF4/FMR2 family member 4 [Source:HGNC			
Symbol;Acc:HGNC:17869]	AF-4	3389	3416	3069
3880	16.40601683	13.33179697	12.58450726	5309
22.72222275	18.25710753	16.0329941		4733
ENSG00000104756	1735.442514	1546.154503	1572.299853	
1157.274112	1385.411574	1154.890666	1617.965623	
1232.525451	0.392053281	0.009293023	0.057795952	KCTD9
8	25427847	25458476	-	4383
protein_coding	potassium channel tetramerization domain containing 9			
[Source:HGNC	Symbol;Acc:HGNC:22401]	-	1500	1668
1152	1516	1177	18.71606312	1608
16.99483802	12.70814686	15.07253595	12.53577037	
ENSG0000065665	198.9974082	164.0703519	181.8705054	
77.3525231	120.6295038	105.9712761	181.6460885	
101.3177677	0.840318827	0.009296843	0.057796195	
SEC61A2 10	12129637	12169961	+	3916
protein_coding	Sec61 translocon alpha 2 subunit [Source:HGNC			
Symbol;Acc:HGNC:17702]	-	172	177	186
108	2.402041335	1.992803793	2.200253482	77
0.950712619	1.468891933	1.287440326		132
ENSG00000258673	12.72657843	11.12341369	1.955596832	0
0	0	8.601862985	0	5.595908916
0.009349019	1	LINC01397	1	110082688
110109719	+	579	antisense	long intergenic non-
protein_coding	RNA 1397 [Source:HGNC			
Symbol;Acc:HGNC:50677]	-	0	0	0
11	12	2	0	1.038983939
0.913769463	0.160012492	0	0	0
ENSG00000113387	4655.613783	3603.986036	3323.536817	
2516.468446	3381.281546	2693.436601	3861.045545	
2863.728865	0.430715842	0.009353716	0.05812612	SUB1
5	32531633	32604079	+	9324
protein_coding	"SUB1 homolog, transcriptional regulator [Source:HGNC			
Symbol;Acc:HGNC:19985]"	PC4	4024	3888	3399
2745	23.60208771	18.38475935	16.88695537	2505
12.98992614	17.29251085	13.74314472		3700
ENSG00000129484	537.9871792	670.1856748	784.1943298	
531.4218795	434.9973016	392.4862078	664.1223946	
452.968463	0.55302304	0.009359385	0.058137718	PARP2
14	20343582	20357905	+	4096

protein_coding	poly(ADP-ribose) polymerase 2 [Source:HGNC						
Symbol;Acc:HGNC:272]	-	465	723	802	529	476	
400	6.208514756	7.782377751		9.070200264			
6.244489513	5.064138823	4.558753179					
ENSG00000105854	1180.100909	914.900776		1084.378444			
875.9922096	702.7582457	738.8552862		1059.793376			
772.5352472	0.455805852	0.009377762		0.058228207		PON2	
7	95404863	95435329		-	3843		
protein_coding	paraoxonase 2 [Source:HGNC						
Symbol;Acc:HGNC:9205]	-	1020	987	1109	872	769	753
14.51524933	11.32350109	13.36791322		10.97102784			
8.719961211	9.146830423						
ENSG00000152217	254.5315687	248.4229057		466.4098445			
177.8103453	164.4947779	220.7734919		323.1214396			
187.6928717	0.784573774	0.009385567		0.058253007		SETBP1	
18	44680173	45068510		+	14025		
protein_coding	SET binding protein 1 [Source:HGNC						
Symbol;Acc:HGNC:15573]	-	220	268	477	177	180	
225	0.857856258	0.842492187		1.575498394			
0.61019917	0.55927864	0.748903196					
ENSG00000108556	34.70885027	40.7858502		28.35615407		0	
	13.70789816	3.924862078		34.61695151		5.877586746	
	2.546289531	0.009407		0.058362343		CHRNE	17
	4897774	4934438	-	2864		protein_coding	cholinergic
receptor	nicotinic	epsilon	subunit [Source:HGNC				
Symbol;Acc:HGNC:1966]	-	30	44	29	0	15	4
0.572852686	0.677350757	0.469058964		0		0.228232161	
	0.065197811						
ENSG00000196204	841.1111382	920.4624829		833.0842506			
1235.631213	1026.264642	1195.120503		864.8859572			
1152.338786	-0.413527357	0.009411091		0.058364037			
RNF216P1	7	4973988	5040675	+	5510		
transcribed_unprocessed_pseudogene							
pseudogene 1 [Source:HGNC							
Symbol;Acc:HGNC:33610]	-						727
993	852	1230	1123	1218	7.215684317		
7.945689826	7.162925789	10.79331194		8.881508896			
10.31909772							
ENSG00000247315	882.7617586	948.2710171		1090.245234			
1333.075301	1195.32872	1356.039848		973.7593366			
1294.814623	-0.410570394	0.009415858		0.058369922		ZCCHC3	
20	296968	300321	+	3354		protein_coding	zinc
finger	CCHC-type	containing 3 [Source:HGNC					
Symbol;Acc:HGNC:16230]	-	763	1023	1115	1327	1308	1382
12.44102585	13.44765422	15.39977108		19.1297406			
16.99430011	19.23494818						
ENSG00000166797	1168.531292	1041.893082		934.7752859			
653.9804225	891.0133805	726.0994844		1048.399887			
757.0310958	0.468951873	0.009467778		0.058667984		CIA02A	
15	64072559	64094018		-	2427		
protein_coding	cytosolic iron-sulfur assembly component 2A						

[Source:HGNC Symbol;Acc:HGNC:26235]	-	1010	1124	956
651	975	740	22.75864021	20.41881305
18.24696217	12.96917734	17.50626253	14.23337787	
ENSG00000125952	770.536476	916.7546783	917.1749144	
1148.232908	1076.526936	1259.880727	868.1553562	
1161.546857	-0.4192512	0.009480591	0.05872358	MAX
14	65006174	65102695	-	4430
protein_coding	MYC associated factor X [Source:HGNC			
Symbol;Acc:HGNC:6913]	bHLH	666	989	938
1284	8.22176796	9.842978202	9.808476772	1178
12.47509095	11.58777788	13.53029711		
ENSG00000114054	742.7693958	749.9034729	742.1489979	
618.8201848	526.3832894	459.2088631	744.9406222	
534.8041124	0.478309205	0.009496125	0.058782873	PCCB
3	136250306	136337896	+	7532
protein_coding	propionyl-CoA carboxylase subunit beta [Source:HGNC			
Symbol;Acc:HGNC:8654]	-	642	809	759
468	4.661432819	4.735568993	4.66803303	616
3.954318234	3.332504694	2.900558157		576
ENSG00000111145	4819.902341	3691.119443	3270.735702	
5612.578526	5650.395622	4517.516252	3927.252495	
5260.163467	-0.421884292	0.009497854	0.058782873	ELK3
12	96194382	96269835	+	4648
protein_coding	"ELK3, ETS transcription factor [Source:HGNC			
Symbol;Acc:HGNC:3325]"	ETS	4166	3982	3345
4604	49.01712771	37.77192288	33.33745623	5587
58.1184159	57.96845491	46.23972381		6183
ENSG00000101265	108.7543975	92.69511408	111.4690194	
38.17397244	25.58807657	70.6475174	104.306177	
44.8031888	1.22041329	0.009535568	0.058992404	RASSF2
20	4780023	4823645	-	5759
association domain	family member 2 [Source:HGNC			
Symbol;Acc:HGNC:9883]				
-	94	100	114	38
0.89263824	0.765573478	0.916980771	0.319034562	28
0.211870041	0.58362173			72
ENSG00000133597	345.931541	506.1153229	542.678121	
841.8365501	591.2673407	658.3956136	464.9083283	
697.1665014	-0.582862739	0.009542225	0.059009707	ADCK2
7	140673153	140696261	+	2913
protein_coding	aarF domain containing kinase 2 [Source:HGNC			
Symbol;Acc:HGNC:19039]	-	299	546	555
671	5.613392583	8.263920224	8.825817732	838
13.90928323	9.678819567	10.75296102		647
ENSG00000100294	414.1922799	530.2160526	547.5671131	
790.6030607	563.8515444	829.127114	497.3251485	
727.860573	-0.548133189	0.009550961	0.059039847	MCAT
22	43132206	43143394	-	2388
protein_coding	malonyl-CoA-acyl carrier protein transacylase			
[Source:HGNC Symbol;Acc:HGNC:29622]	-			
787	617	845	8.198670202	358
				572
				560

10.8631596	15.93461689	11.2592494	16.51841688		
ENSG00000137331	2698.034628	3342.585814	2777.9253		
3645.614368	4623.21712	3393.043266	2939.515247		
3887.291585	-0.403085592	0.009600673	0.059323159	IER3	
6	30743199	30744554	- 1356		
protein_coding	immediate early response 3 [Source:HGNC				
Symbol;Acc:HGNC:5392]	-	2332 3606	2841 3629	5059	
3458	94.05103286	117.246528	97.05412533		
129.3982775	162.5786779	119.0450482			
ENSG00000067365	258.0024537	311.4555833	236.6272167		
398.8175541	362.8023713	455.284001	268.6950846		
405.6346422	-0.593287544	0.00961209	0.059348188		
METTL22 16	8621683 8649654 +	8254	protein_coding		
methyltransferase like 22 [Source:HGNC	Symbol;Acc:HGNC:28368]	-			
223	336 242	397 397	464 1.47752593		
1.794769873	1.358167573	2.325558446	2.095967962		
2.624215835					
ENSG00000136111	1609.333691	1680.562418	2087.599619		
1305.951689	1273.920669	1474.766926	1792.498576		
1351.546428	0.407649195	0.009612489	0.059348188	TBC1D4	
13	75283503	75482114	- 7977		
protein_coding	TBC1 domain family member 4 [Source:HGNC				
Symbol;Acc:HGNC:19165]	-	1391 1813	2135 1300	1394	
1503	9.536351508	10.02056409	12.3982601		
7.879614609	7.615208165	8.795599064			
ENSG00000106538	3.470885027	1.853902282	21.51156516	0	
0	0	8.945450821	0	5.655534203	
0.009617267	1	RARRES2 7	150338317	150341674	
-	1921	protein_coding	retinoic acid receptor		
responder 2 [Source:HGNC	Symbol;Acc:HGNC:9868]	-	3	2	
22	0	0	0.085406043	0.045902526	
0.530515127	0	0	0		
ENSG00000253500	1.156961676	2.780853423	0.977798416	0	
61.22861179	8.830939675	1.638537838	23.35318382		
-3.821542493	0.009635734	0.059467687	AF121898.1		
8	87540835	87755718	- 2910		
antisense	"novel transcript, antisense to CNBD1"				1
3	1	0	67	9	0.018793243
0.045452966	0.015918768	0	1.003322176	0.144376183	
ENSG00000110066	1220.594568	1055.797349	1030.599531		
1451.615531	1580.977588	1328.565813	1102.330483		
1453.719644	-0.399843445	0.009659386	0.059589605	KMT5B	
11	68154863	68213828	- 8632		
protein_coding	lysine methyltransferase 5B [Source:HGNC				
Symbol;Acc:HGNC:24283]	-	1055 1139	1054 1445	1730	
1354	6.683989219	5.817632058	5.656289573		
8.093896226	8.733599435	7.322396951			
ENSG00000266129	17.35442514	24.10072966	15.64477466	0	
0	4.906077597	19.03330982	1.635359199		
3.549799781	0.009675564	1	SRP68P1 17	16787235	

16788141	-	269	processed_pseudogene	signal
recognition particle 68 pseudogene 1 [Source:HGNC				
Symbol;Acc:HGNC:30427]	-	15	26	16
			0	0
5	3.049535489	4.261426733	2.755308033	0
0	0.867688337			
ENSG00000099949	253.374607	318.8711925	290.4061296	
392.7900848	393.8736072	508.2696391	287.550643	
431.6444437	-0.584719715	0.009699042	0.059808466	LZTR1
22	20982013	20999038	+ 8935	
protein_coding leucine zipper like transcription regulator 1				
[Source:HGNC Symbol;Acc:HGNC:6742]		Others	219	344
	391	431	518	1.340430406
1.539800117	2.115842893	2.102041622	2.706333035	297
ENSG00000164087	506.749214	573.7827562	806.6836933	
460.0968257	382.9072886	428.791182	629.0718878	
423.9317654	0.570330205	0.009702688	0.059808466	POC1A
3	52075253	52154690	- 2247	
protein_coding POC1 centriolar protein A [Source:HGNC				
Symbol;Acc:HGNC:24488]	-	438	619	825
	437	10.66020977	12.14567161	17.00800332
9.855158697	8.125863979	9.078715366		419
ENSG00000084731	588.8934929	602.5182416	531.9223384	
728.319211	857.200565	768.2917517	574.444691	
784.6038426	-0.450095608	0.009738081	0.060002438	KIF3C
2	25926596	25982749	- 6403	
protein_coding kinesin family member 3C [Source:HGNC				
Symbol;Acc:HGNC:6321]	-	509	650	544
	783	4.347393916	4.475729311	3.935662545
5.474641954	6.383780331	5.708530109		
ENSG00000215712	369.0707746	378.1960655	260.0943787	
471.1471861	553.7990857	476.8707425	335.7870729	
500.6056714	-0.576797738	0.009751953	0.060039691	
TMEM242 6	157289386	157323601	- 4644	
protein_coding transmembrane protein 242 [Source:HGNC				
Symbol;Acc:HGNC:17206]	-	319	408	266
	486	3.756584695	3.873485281	2.653333751
4.882945175	5.686421011	4.885287128		
ENSG00000130939	2038.566473	1943.816542	2102.266595	
1772.075984	1251.074172	1554.245383	2028.216537	
1525.798513	0.41088176	0.009751982	0.060039691	UBE4B
1	10032832	10181239	+ 9128	
protein_coding ubiquitination factor E4B [Source:HGNC				
Symbol;Acc:HGNC:12500]	-	1762	2097	2150
	1584	10.55662235	10.12877111	10.9110183
9.343813595	6.535614302	8.10075657		
ENSG00000147439	240.6480285	408.7854531	395.0305601	
561.5592261	499.8813529	534.7624581	348.1546806	
532.0676791	-0.60959344	0.009771655	0.060136593	BIN3
8	22620418	22669148	- 5080	
protein_coding bridging integrator 3 [Source:HGNC				

Symbol;Acc:HGNC:1054]	-	208	441	404	559	547
545	2.239207476	3.827443912	3.684004132			
5.320461588	4.692261548	5.008167272				
ENSG00000068120	2231.779072	2687.231357	2608.766174			
3190.540433	2997.460398	3427.38581	2509.258868			
3205.12888	-0.352741252	0.009776341	0.060141215			COASY
17	42561467	42566277	+ 4032			
protein_coding	Coenzyme A synthase [Source:HGNC					
Symbol;Acc:HGNC:29932]	-	1929	2899	2668	3176	3280
3493	26.16413715	31.70017428	30.65263103			
38.08563376	35.44964725	40.44120598				
ENSG00000177822	220.9796801	116.7958437	118.3136084			
80.36625776	81.33352909	67.70387084	152.0297107			
76.4678859	0.988378903	0.009784456	0.060166923			
AC098864.1	4	181874438	182145249	-		5551
antisense	uncharacterized LOC90768 [Source:NCBI					
gene;Acc:90768]	-	191	126	121	80	89
1.881728023	1.00076769	1.009756364	0.696818987			69
0.698678497	0.580261691					
ENSG00000150990	1737.756437	2585.266732	2376.050151			
3327.163071	2632.830307	3102.603473	2233.02444			
3020.865617	-0.435377476	0.009804311	0.060250554			DHX37
12	124946825	124989122	- 6618			
protein_coding	DEAH-box helicase 37 [Source:HGNC					
Symbol;Acc:HGNC:17210]	-	1502	2789	2430	3312	2881
3162	12.41188899	18.58042781	17.00912476			
24.19718148	18.97033906	22.30391691				
ENSG00000186298	4816.431456	3614.182498	3946.394408			
3053.917795	3543.034745	2855.337162	4125.669454			
3150.763234	0.388582014	0.009805938	0.060250554			PPP1CC
12	110719680	110742939	- 6906			
protein_coding	protein phosphatase 1 catalytic subunit gamma					
[Source:HGNC	Symbol;Acc:HGNC:9283]	-	4163	3899		4036
3040	3877	2910	32.96662968	24.89204739		
27.07241753	21.28375378	24.46402009	19.67036645			
ENSG00000078967	325.1062309	363.3648472	328.5402678			
526.3989883	474.2932764	457.2464321	339.003782			
485.9795656	-0.518945708	0.009820871	0.060318063			UBE2D4
7	43926438	43956136	+ 4713			
protein_coding	ubiquitin conjugating enzyme E2 D4 (putative)					
[Source:HGNC	Symbol;Acc:HGNC:21647]	-	281	392		336
524	519	466	3.260645563	3.667098582		
3.302511157	5.375700489	4.798754317	4.615667467			
ENSG00000162595	37.02277362	23.17377852	28.35615407			
12.05493866	1.827719755	1.962431039	29.51756874			
5.281696486	2.490084552	0.009831808	0.060360983			DIRAS3
1	68045896	68051631	- 2039			
protein_coding	DIRAS family GTPase 3 [Source:HGNC					
Symbol;Acc:HGNC:687]	-	32	25	29	12	2
2	0.858276982	0.540575976	0.65884496			

0.284554355	0.042743627	0.045788752					
ENSG0000064933	815.6579814	559.8784891	568.1008798				
303.3826231	486.1734548	475.8895269	647.8791167				
421.8152016	0.617686433	0.009841186	0.060394306	PMS1			
2	189784085	189877629	+ 5454				
protein_coding	"PMS1 homolog 1, mismatch repair system component						
[Source:HGNC Symbol;Acc:HGNC:9121]"	HMG	705	604	581			
302	532	485	7.069174401	4.882651898			
4.934730671	2.677275266	4.250647553	4.15119028				
ENSG00000124783	8309.298755	6662.9248	6989.303079				
5920.984041	6092.703803	5283.845572	7320.508878				
5765.844472	0.344243644	0.009849122	0.060418749	SSR1			
6	7268306	7347446	- 11349	protein_coding	signal		
sequence_receptor_subunit_1	[Source:HGNC Symbol;Acc:HGNC:11323] -						
7182	7188	7148	5894	6667	5385	34.60847936	
27.92443729	29.17624543	25.110407	25.59949846				
22.15002126							
ENSG00000213753	822.5997514	1025.207962	1046.244305				
1395.35915	1207.208898	1274.59896	964.6840062				
1292.389003	-0.421029767	0.009860699	0.060465508				
CENPBD1P1	19	58573503	58599801	+ 4969			
transcribed_processed_pseudogene	CENPB DNA-binding						
domains_containing_1_pseudogene_1	[Source:HGNC Symbol;Acc:HGNC:28421]						
-	711	1106	1070	1389	1321	1299	
7.825197666	9.813413261	9.975099508	13.51557309				
11.58490345	12.20355015						
ENSG00000165476	2448.130906	1865.952647	1760.037149				
1549.059618	1480.453001	1534.621072	2024.7069				
1521.377897	0.411835303	0.009870639	0.060502187	REEP3			
10	63521363	63625123	+ 5248				
protein_coding	receptor accessory protein 3 [Source:HGNC						
Symbol;Acc:HGNC:23711]	-	2116	2013	1800	1542	1620	
1564	22.05040394	16.91156918	15.88843547				
14.2066527	13.45178093	13.91198043					
ENSG00000129083	3927.884889	2870.767683	2978.373976				
2122.673783	2799.152805	2371.597911	3259.008849				
2431.141499	0.422337068	0.009888567	0.060577239	COPB1			
11	14443440	14500027	- 5131				
protein_coding	coatamer protein complex subunit beta 1 [Source:HGNC						
Symbol;Acc:HGNC:2231]	-	3395	3097	3046	2113	3063	
2417	36.18532492	26.61173246	27.49985096				
19.91125796	26.013787	21.98976922					
ENSG00000175322	323.9492692	221.5413227	360.8076156				
181.8286582	163.5809181	208.0176901	302.0994025				
184.4757555	0.711148848	0.009893451	0.060577239	ZNF519			
18	14057457	14132490	- 15787				
protein_coding	zinc finger protein 519 [Source:HGNC						
Symbol;Acc:HGNC:30574]	zf-C2H2	280	239	369	181	179	
212	0.96995846	0.667470767	1.082752544				
0.554345061	0.494096776	0.62687693					

ENSG00000160688	671.0377719	850.9411473	776.3719424	
1203.48471	937.6202342	1010.651985	766.1169539	
1050.585643	-0.454565942	0.009897694	0.060577239	FLAD1
1	154983338	154993111	+ 4019	
protein_coding	flavin adenine dinucleotide synthetase 1 [Source:HGNC			
Symbol;Acc:HGNC:24671]	-	580 918	794 1198	1026
1030	7.892320261	10.07067621	9.151766945	
14.4125235	11.12469088	11.96369284		
ENSG00000105063	3024.29782	3717.074075	3862.303744	
5199.696877	3941.477651	4749.083114	3534.558546	
4630.085881	-0.389191896	0.009898948	0.060577239	PPP6R1
19	55229780	55258995	- 6583	
protein_coding	protein phosphatase 6 regulatory subunit 1			
[Source:HGNC Symbol;Acc:HGNC:29195]	-	2614	4010	3950
5176	4313 4840	21.71583039	26.85681302	
27.79557716	38.01645607	28.55053171	34.32160133	
ENSG00000154957	273.0429555	297.5513162	249.3385961	
474.1609208	423.1171232	339.5005697	273.3109559	
412.2595379	-0.592740922	0.009902696	0.060577239	ZNF18
17	11977439	11997510	- 3012	
protein_coding	zinc finger protein 18 [Source:HGNC			
Symbol;Acc:HGNC:12969]	zf-C2H2	236 321	255 472	463
346	4.285009096	4.698768221	3.921820106	
7.57684229	6.698608886	5.362498295		
ENSG00000234129	27.76708022	24.10072966	23.46716199	0
6.397019142	4.906077597	25.11165729	3.767698913	
2.726258928	0.00991905	0.060653005	AC073529.1	
X	10847877	11111141	- 3080	
lincRNA novel transcript		- 24	26	24 0
7	5	0.426142881	0.372183049	0.360963244
0	0.099038926	0.075781871		
ENSG00000131023	1355.959084	1103.998809	1245.715182	
1637.462502	1647.689359	1540.508366	1235.224358	
1608.553409	-0.381574508	0.009928009	0.060683513	LATS1
6	149658153	149718256	- 8643	
protein_coding	large tumor suppressor kinase 1 [Source:HGNC			
Symbol;Acc:HGNC:6514]	-	1172 1191	1274 1630	1803
1570	7.415796633	6.075488546	6.828217885	
9.118519011	9.090542707	8.479713423		
ENSG00000065883	2770.923213	2691.866113	2934.373047	
4209.18275	3293.550998	3321.414533	2799.054124	
3608.049427	-0.366191878	0.009938056	0.060720646	CDK13
7	39949646	40099580	+ 25093	
protein_coding	cyclin dependent kinase 13 [Source:HGNC			
Symbol;Acc:HGNC:1733]	-	2395 2904	3001 4190	3604
3385	5.219725252	5.102440903	5.540077813	
8.073514932	6.258795958	6.297267214		
ENSG00000083457	275.3568788	354.0953358	326.584671	
194.8881751	173.6333767	239.4165868	318.6789619	
202.6460462	0.654569532	0.009953279	0.060789364	ITGAE

17	3714628	3801243	-	6657	protein_coding		
integrin subunit alpha E [Source:HGNC Symbol;Acc:HGNC:6147] -							
238	382	334	194	190	244	1.955208663	
	2.529989763	2.324183243		1.409043463		1.243751569	
	1.711028743						
ENSG00000232677	1.156961676		0.926951141		0.977798416		
6.027469332	21.01877718		14.71823279		1.020570411		
13.9214931	-3.777918516		0.009977913		1	LINC00665	
	19	36313067	36331718		-	7201	
lincRNA long intergenic non-protein coding RNA 665 [Source:HGNC							
Symbol;Acc:HGNC:44323] - 1 1 1 6 23							
	15	0.007594547	0.006122674		0.006432942		
0.040286511	0.139185381		0.097239896				
ENSG00000011009	2015.427239		2792.903787		2528.586704		
2970.537803	2963.647582		3962.148268		2445.639244		
3298.777884	-0.431312084		0.00999048		0.060992202		LYPLA2
	1	23790970	23795539		+	2196	
protein_coding lysophospholipase II [Source:HGNC							
Symbol;Acc:HGNC:6738] - 1742 3013 2586 2957 3243							
	4038	43.38209566	60.49239145		54.55048806		
65.10587878	64.35365392		85.83808391				
ENSG00000189343	1840.726026		1757.499363		1798.171287		
2131.714987	2424.470255		2280.344867		1798.798892		
2278.84337	-0.341477355		0.009998257		0.06101531		
RPS2P46 17	19445970		19446852		-	883	
processed_pseudogene ribosomal protein S2 pseudogene 46							
[Source:HGNC Symbol;Acc:HGNC:35839] - 1591 1896 1839							
	2122	2653	2324	98.53810109	94.66982785		
96.47693137	116.1945859		130.9287869		122.8630963		
ENSG00000100280	1034.323738		1294.950744		1600.656007		
904.1203998	901.979699		1027.332649		1309.97683		
944.4775826	0.47255747		0.010019662		0.06112154		AP1B1
	22	29327680	29423179		-	6721	
protein_coding adaptor related protein complex 1 subunit beta 1							
[Source:HGNC Symbol;Acc:HGNC:554] - 894 1397 1637							
	900	987	1047	7.274419397	9.164240304		
11.28280909	6.4745536		6.399438283		7.272082917		
ENSG00000147394	133.0505927		193.7327884		73.33488121		
257.1720248	244.9144471		237.4541557		133.3727541		
246.5135426	-0.885188902		0.010056802		0.061323625		ZNF185
	X	152914442	152973480		+	4812	
protein_coding zinc finger protein 185 with LIM domain [Source:HGNC							
Symbol;Acc:HGNC:12976] - 115 209 75 256 268							
	242	1.306973959	1.914937595		0.722001501		
2.572264139	2.426988805		2.34766315				
ENSG00000185338	45.12150535		12.97731597		47.91212239		
6.027469332	7.310879019		10.79337071		35.33698124		
8.043906355	2.132769746		0.010063716		0.061341321		SOCS1
	16	11254405	11256200		-	1796	
protein_coding suppressor of cytokine signaling 1 [Source:HGNC							

Symbol;Acc:HGNC:19383]	-	39	14	49	6	8
11	1.187552963	0.343681109		1.263840311		
0.161527375	0.194107472	0.285912003				
ENSG00000244509	498.6504822	455.1330102		523.1221526		
236.0758822	365.543951	372.8618974		492.3018817		
324.8272435	0.599159299	0.010071202		0.061362478		
APOBEC3C	22	39014083	39020352	+		2818
protein_coding	apolipoprotein B mRNA editing enzyme catalytic					
subunit 3C [Source:HGNC	Symbol;Acc:HGNC:17353]	-		431		491
535	235	400	380	8.364326828		7.682002803
8.794582941	4.032070249	6.185539724		6.294897222		
ENSG00000264340	0	0	0	12.05493866		11.88017841
1.962431039	0	8.632516037		-5.529982082		
0.010080306	1	AC009704.1	18	74561381		
74562100	-	331	antisense	"novel transcript,		
antisense to CNDP1"	-	0	0	0	12	13
2	0	0	0	1.752889214		1.711488385
0.282064245						
ENSG00000013016	188.5847531	193.7327884		160.3589403		
316.4421399	255.8807657	281.6088541		180.8921606		
284.6439199	-0.653893781	0.010080361		0.061393816		EHD3
2	31234337	31269447		+	4636	
protein_coding	EH domain containing 3 [Source:HGNC					
Symbol;Acc:HGNC:3244]	-	163	209	164	315	280
287	1.922821147	1.987635829		1.638712915		
3.285249387	2.631923136	2.889911247				
ENSG00000169933	10.41265508	10.19646255		3.911193665		0
0	0	8.173437098	0	5.522955293		
0.010104407	1	FRMPD4 X	12138466		12724523	
+	8478	protein_coding	FERM and PDZ domain containing			
4 [Source:HGNC	Symbol;Acc:HGNC:29007]	-		9	11	4
0	0	0	0.058055559		0.0572049	
0.021855917	0	0	0			
ENSG00000163159	1397.609704	1564.693526		1587.944628		
1870.524649	2002.266991	1941.825513		1516.749286		
1938.205718	-0.353433528	0.010131501		0.061659572		VPS72
1	151169987	151195321		-	4545	
protein_coding	vacuolar protein sorting 72 homolog [Source:HGNC					
Symbol;Acc:HGNC:11644]	-	1208	1688	1624	1862	2191
1979	14.53542583	16.37466835		16.55215685		
19.80829091	21.00714764	20.32628181				
ENSG00000188486	4122.254451	6450.652989		8283.908182		
4256.397927	4167.201041	4861.922899		6285.605207		
4428.507289	0.505416013	0.010132063		0.061659572		H2AFX
11	119093854	119095467		-	1614	
protein_coding	H2A histone family member X [Source:HGNC					
Symbol;Acc:HGNC:4739]	-	3563	6959	8472	4237	4560
4955	120.7277216	190.0978758		243.155934		
126.9276239	123.1175345	143.3131904				
ENSG00000170425	328.5771159	357.8031404		417.5199237		

178.8149235	264.1055046	262.9657592	367.9667267	
235.2953958	0.645002953	0.010139887	0.061682629	
ADORA2B 17	15944917	15975746	+	2551
protein_coding	adenosine A2b receptor [Source:HGNC			
Symbol;Acc:HGNC:264]	-	284	386	427 178 289
268	6.088391825	6.671305119	7.753894224	
3.373733396	4.936805098	4.904224824		
ENSG00000169057	2208.639839	2357.236751	2388.761531	
3439.675832	2733.354893	2779.783567	2318.212707	
2984.271431	-0.364129877	0.010175887	0.061877	MECP2
X	154021573	154137103	-	18366
protein_coding	methyl-CpG binding protein 2 [Source:HGNC			
Symbol;Acc:HGNC:6990]	MBD	1909	2543	2443 3424 2991
2833	5.684418722	6.104719843	6.161853134	
9.01405892	7.096765105	7.200754929		
ENSG00000143507	1553.79953	1759.353265	1254.515368	
1940.845125	2730.613314	1738.7139	1522.556055	
2136.724113	-0.489034754	0.010181381	0.061885797	DUSP10
1	221701424	221742176	-	2914
protein_coding	dual specificity phosphatase 10 [Source:HGNC			
Symbol;Acc:HGNC:3065]	-	1343	1898	1283 1932 2988
1772	25.20467942	28.71710252	20.39574459	
32.05669839	44.6837531	28.38704629		
ENSG00000141002	3696.492554	3565.981039	4449.960592	
3306.066929	2809.205263	3006.444352	3904.144728	
3040.572181	0.360787444	0.010196667	0.061954075	TCF25
16	89873570	89913627	+	7967
protein_coding	transcription factor 25 [Source:HGNC			
Symbol;Acc:HGNC:29181]	Others	3195	3847	4551 3291 3074
3064	21.9316223	21.28929731	26.46150092	
19.97258516	16.81386839	17.9531219		
ENSG00000261373	87.92908735	64.88657986	127.1137941	
165.7554066	177.2888162	177.600009	93.30982044	
173.5480773	-0.895631741	0.010208201	0.061999509	
VPS9D1-AS1	16	89711856	89718165	+
antisense	VPS9D1 antisense RNA 1 [Source:HGNC			1753
Symbol;Acc:HGNC:48915]	-	76	70	130 165 194
181	2.370971802	1.760556965	3.435293851	
4.550962371	4.822568572	4.819951793		
ENSG00000146223	9999.619763	8971.960092	8258.485423	
10885.60961	11658.11046	11284.95969	9076.688426	
11276.22659	-0.31315163	0.010223969	0.062048202	RPL7L1
6	42879618	42889925	+	7809
protein_coding	ribosomal protein L7 like 1 [Source:HGNC			
Symbol;Acc:HGNC:21370]	-	8643	9679	8446 10836 12757
11501	60.52904236	54.64733972	50.10235157	
67.09262593	71.18880953	68.75213933		
ENSG00000173511	1394.138819	1975.332881	1730.703197	
1860.478867	2602.672931	2525.648747	1700.058299	
2329.600182	-0.454109129	0.010228275	0.062048202	VEGFB

11	64234538	64238793	+	1545		
protein_coding	vascular endothelial growth factor B [Source:HGNC					
Symbol;Acc:HGNC:12681]	-	1205	2131	1770	1852	2848
2574	42.65336272	60.81194918		53.06977403		
57.95804331	80.32858169	77.77250628				
ENSG00000126457	7185.888968	7821.613726		8542.046964		
6071.670774	6312.030173	6561.388179		7849.849886		
6315.029709	0.313954449	0.010228395		0.062048202		PRMT1
19	49675786	49689029	+	4796		
protein_coding	protein arginine methyltransferase 1 [Source:HGNC					
Symbol;Acc:HGNC:5187]	-	6211	8438	8736	6044	6907
6687	70.8234482	77.57009165		84.37929777		
60.93214933	62.75796886	65.08758901				
ENSG00000240849	665.2529635	737.8531081		842.8622347		
918.1844949	1098.459573	1030.276295		748.6561021		
1015.640121	-0.439614534	0.010234201		0.062058796		
TMEM189 20	50118254	50153734	-	7931		
protein_coding	transmembrane protein 189 [Source:HGNC					
Symbol;Acc:HGNC:16735]	-	575	796	862	914	1202
1050	3.96492163	4.425059104		5.034794763		
5.572107191	6.604426564	6.180269094				
ENSG00000100321	11.56961676	18.53902282	0	0	0	
0	10.03621319	0	5.820321298	0.010252547		
1	SYNGR1 22	39349925		39385588		+
6953	protein_coding	synaptogyrin 1 [Source:HGNC				
Symbol;Acc:HGNC:11498]	-	10	20	0	0	0
0	0.078654302	0.126821161		0	0	0
0						
ENSG00000181789	4111.841795	3714.293221		4168.354648		
3066.977312	3225.925367	3320.433318		3998.163222		
3204.445332	0.319148923	0.010268067		0.062223448		COPG1
3	129249606	129277773	+	4425		
protein_coding	coatmer protein complex subunit gamma 1 [Source:HGNC					
Symbol;Acc:HGNC:2236]	-	3554	4007	4263	3053	3530
3384	43.92369439	39.92454959		44.62770087		
33.3591323	34.7632225	35.69958069				
ENSG00000148308	1336.290735	1389.49976		1409.985316		
1908.698622	1548.992492	1934.957004		1378.591937		
1797.549373	-0.382527609	0.01027006		0.062223448		GTF3C5
9	133030675	133058503	+	3592		
protein_coding	general transcription factor IIIC subunit 5					
[Source:HGNC Symbol;Acc:HGNC:4668]	-			1155	1499	1442
1900	1695	1972		17.58491887	18.39921367	
18.59650744	25.57516766	20.56326026		25.6281123		
ENSG00000157445	62.47593049	18.53902282		27.37835565		
14.06409511	3.65543951	0	36.13110299	5.906511539		
2.615613012	0.010273565	0.062223448		CACNA2D3		
3	54122547	55074557	+	4670		
protein_coding	calcium voltage-gated channel auxiliary subunit					
alpha2delta 3 [Source:HGNC Symbol;Acc:HGNC:15460]	-					54

0.1888196	20	28	14	4	0	0.632370486	
ENSG00000145781	0.27774331	0.144948048	0.037325163	0			0
444.0235741	682.6073887	637.7423849	571.034275				
454.3589678	470.6378369	448.4154924	630.4613495				
COMMD10	5	0.472001386	0.010282502	0.062252916			
protein_coding	116084991	116412762	+	2464			
Symbol;Acc:HGNC:30201]	COMM domain containing 10 [Source:HGNC						
457	-	590	688	584	442		515
8.673268325	13.09501562	12.31067008	10.97929867				
ENSG00000223496	9.108044069	8.658078765					
2836.928899	2154.26264	2726.163305	2464.052009				
3165.509323	3406.869623	3252.729447	2448.159318				
16	-0.370462285	0.010300952	0.062339925				EXOSC6
protein_coding	70246778	70251930	-	5153			
Symbol;Acc:HGNC:19055]	exosome component 6 [Source:HGNC						
3315	-	1862	2941	2520	2824		3728
26.49755281	19.76124247	25.16337212	22.65389348				
ENSG00000240445	31.52639837	30.03097456					
297.3551537	190.8986765	133.4809643	183.8261022				
274.2475088	286.9520015	238.4353712	169.4019143				
17	-0.696814969	0.010320816	0.06239409				FOXO3B
processed_pseudogene	18670946	18672873	-	1928			
Symbol;Acc:HGNC:3822]	forkhead box O3B pseudogene [Source:HGNC						
243	-	165	144	188	296		314
7.42311003	4.680277755	3.292982483	4.517033126				
ENSG00000123908	7.097104766	5.883628999					
4817.957153	3636.330547	3273.064478	3200.334216				
4334.863898	3682.855306	4503.779234	3369.909747				
8	-0.363332417	0.010323318	0.06239409				AGO2
protein_coding	140520156	140635619	-	15833			
Symbol;Acc:HGNC:3263]"	"argonaute 2, RISC catalytic component [Source:HGNC						
4590	-	3143	3531	3273	4796		4030
14.64593759	10.85615117	9.832602078	9.576024518				
ENSG00000102007	11.09175919	13.53304449					
2335.644366	3610.87739	3279.553136	3701.944804				
2737.828525	2817.430002	3060.411205	3530.791777				
X	0.366824327	0.01032531	0.06239409				PLP2
protein_coding	49171926	49175239	+	1279			
Symbol;Acc:HGNC:9087]	proteolipid protein 2 [Source:HGNC						
3119	-	3121	3538	3786	2325		3083
87.89286663	133.449803	121.9610745	137.1236993				
ENSG00000204237	105.0416604	113.838946					
534.4356141	380.6403913	420.8358179	400.8973506				
562.9990453	616.8554173	537.7061047	400.7911866				
17	-0.49001753	0.010326228	0.06239409				OXLD1
protein_coding	81665036	81666635	-	1600			
Symbol;Acc:HGNC:27901]	oxidoreductase like domain containing 1 [Source:HGNC						
548	-	329	454	410	532		675
16.07655039	11.24528918	12.5103606	11.87042668				
	18.3841006	15.98845915					

ENSG00000125388	104.1265508	135.3348666	125.1581973	
171.782876	232.1204089	217.8298453	121.5398715	
207.2443767	-0.768496668	0.010333862	0.062415545	GRK4
4	2963608 3040747	+ 4686	protein_coding	G
protein-coupled	receptor kinase 4	[Source:HGNC	Symbol;Acc:HGNC:4543]	
-	90 146	128 171	254 222	
1.050352172	1.373676692	1.265348461	1.764391848	
2.362055132	2.211549814			
ENSG00000187079	4809.489686	4039.653072	4763.833884	
3899.772658	3422.405241	3417.573654	4537.65888	
3579.917184	0.341939559	0.010341341	0.062436052	TEAD1
11	12674591	12944483	+ 10279	
protein_coding	TEA domain transcription factor 1	[Source:HGNC	Symbol;Acc:HGNC:11714]	TEA
3483	22.11688049	18.69262605	21.9562855	3745
18.26021478	15.87667496	15.81789339		
ENSG00000133835	1299.267962	1400.623174	1568.38866	
961.3813585	1003.418145	1228.48183	1422.759932	
1064.427111	0.418912095	0.010353096	0.062458417	
HSD17B4 5	119452443	119637199	+ 10664	
protein_coding	hydroxysteroid 17-beta dehydrogenase 4	[Source:HGNC	Symbol;Acc:HGNC:5213]	-
1252	5.759096194	6.247097525	6.967655717	1098
4.339033647	4.486842258	5.480626778		
ENSG00000269834	12.72657843	34.29719221	16.62257307	
34.15565955	80.41966921	78.49724156	21.21544791	
64.35752344	-1.593960598	0.010353217	0.062458417	
ZNF528-AS1	19 52388842	52397766	-	4160
processed_transcript	ZNF528 antisense RNA 1	[Source:HGNC	Symbol;Acc:HGNC:51305]	-
80	0.144608582	0.39214109	0.18930324	88
0.39517258	0.921823848	0.897723703		
ENSG00000265688	112.2252825	261.4002217	219.0268452	
293.3368408	318.0232373	423.8851044	197.5507832	
345.0817275	-0.80151529	0.010392735	0.062663088	MAFG-
DT 17	81927829	81930753	+ 1895	
antisense	MAFG divergent transcript	[Source:HGNC	Symbol;Acc:HGNC:43649]	-
432	2.799350203	6.561057623	5.475720345	348
7.450318748	8.002554258	10.64193418		
ENSG00000115966	1239.105955	857.4298053	1028.643934	
732.3375239	827.9570489	690.7757257	1041.726565	
750.3567662	0.472317891	0.010395342	0.062663088	ATF2
2	175072250	175168382	- 5751	
protein_coding	activating transcription factor 2	[Source:HGNC	Symbol;Acc:HGNC:784]	TF_bZIP
704	10.18452588	7.091405553	8.473734022	906
6.128940105	6.865045624	5.714461714		
ENSG00000047188	896.6452987	880.6035838	855.5736141	
745.3970407	583.9564617	603.4475445	877.6074989	

644.2670156	0.44616188	0.010400744	0.06267094	YTHDC2
5	113513683	113595285	+ 10816	
protein_coding	YTH domain containing 2 [Source:HGNC			
Symbol;Acc:HGNC:24721]	-	775 950	875 742	639
615	3.918589195	3.872495169	3.747518886	
3.31694632	2.574499295	2.654327295		
ENSG00000244045	328.5771159	425.4705736	322.6734773	
588.6828381	492.5704739	490.6077597	358.9070556	
523.9536906	-0.544637259	0.010416059	0.062738491	
TMEM199 17	28357581	28363683	+ 4620	
protein_coding	transmembrane protein 199 [Source:HGNC			
Symbol;Acc:HGNC:18085]	-	284 459	330 586	539
500	3.361793841	4.380308193	3.308829737	
6.132772535	5.083998191	5.052124735		
ENSG00000076770	1388.354011	1102.144906	1175.313696	
1006.587378	757.5898384	926.2674504	1221.937538	
896.8148891	0.446082281	0.010422092	0.062748197	MBNL3
X	132369317	132489968	- 12199	
protein_coding	muscleblind like splicing regulator 3 [Source:HGNC			
Symbol;Acc:HGNC:20564]	-	1200 1189	1202 1002	829
944	5.379621585	4.297259509	4.564389442	
3.971409833	2.961344256	3.612383075		
ENSG00000100625	397.9948164	216.906567	274.7613549	
170.7782977	168.1502174	194.2806729	296.5542461	
177.736396	0.736606779	0.01042588	0.062748197	SIX4
14	60709528	60724348	- 6658	
protein_coding	SIX homeobox 4 [Source:HGNC Symbol;Acc:HGNC:10890]			
Homeobox	344	234 281	170 184 198	
2.825591429	1.549551535	1.955082034	1.234543357	
1.204294298	1.388249211			
ENSG00000232716	0	0.926951141	0.977798416	45.20601999
0	5.887293117	0.634916519		
17.03110437	-4.699038942	0.010431745	1	AC016831.2
7	130840204	130843725	- 1723	
processed_pseudogene	zinc finger protein 131 (ZNF131) pseudogene			
-	0	1 1 45	0 6 0	
0.025588727	0.026885442	1.262782204	0	
0.16255937				
ENSG00000279267	89.08604903	116.7958437	55.73450972	
136.6226382	224.8095298	152.0884055	87.2054675	
171.1735245	-0.972983782	0.01044037	0.062806215	
AL078621.3	2	113605867	113607908	- 2042
TEC	TEC	- 77 126	57 136	246
155	2.062194861	2.72050022	1.293068624	
3.220211429	5.249742081	3.543414812		
ENSG00000105698	1307.366694	1896.542034	1631.945557	
1935.822234	2197.833005	2366.691833	1611.951428	
2166.782357	-0.426148972	0.010457465	0.062806215	USF2
19	35268978	35279821	+ 4952	
protein_coding	"upstream transcription factor 2, c-fos interacting			

[Source:HGNC Symbol;Acc:HGNC:12594]"	bHLH	1130	2046	1669
1927	2405 2412	12.47936595	18.21624889	
15.61270509	18.81491649	21.16377045	22.73749954	
ENSG00000163006	522.9466774	439.3748408	460.543054	
256.1674466	328.075696	372.8618974	474.2881907	
319.0350133	0.571147665	0.010458347	0.062806215	
CCDC138 2	108786757	108885477	+ 5796	
protein_coding	coiled-coil domain containing 138	[Source:HGNC		
Symbol;Acc:HGNC:26531]	-	452 474	471 255	359
380	4.264859915	3.60565295	3.764393251	
2.127223	2.69913539	3.060562521		
ENSG00000172071	226.7644884	202.0753487	266.9389676	
138.6317946	131.5958223	154.0508366	231.9262683	
141.4261512	0.713768716	0.010458817	0.062806215	
EIF2AK3 2	88556741	88627576	- 5434	
protein_coding	eukaryotic translation initiation factor 2 alpha			
kinase 3 [Source:HGNC Symbol;Acc:HGNC:3255]	-		196 218	
273	138 144	157 1.972564214	1.768767776	
2.327263021	1.227893411	1.154785856	1.348733219	
ENSG00000079785	3874.664652	3025.568524	2999.885541	
2478.294474	2679.437161	2500.137144	3300.039572	
2552.622926	0.370109239	0.010458997	0.062806215	DDX1
2	15591178	15631111	+ 3833	
protein_coding	DEAD-box helicase 1 [Source:HGNC Symbol;Acc:HGNC:2734]			
-	3349 3264	3068 2467	2932 2548	
47.78273903	37.54441042	37.07822981	31.11942377	
33.33371704	31.03177661			
ENSG00000224877	458.1568236	585.833121	704.0148596	
385.7580373	466.0685375	294.3646558	582.6682681	
382.0637435	0.609198362	0.01046017	0.062806215	
NDUF8 17	81239239	81241281	+ 1376	
protein_coding	NADH:ubiquinone oxidoreductase complex assembly factor			
8 [Source:HGNC Symbol;Acc:HGNC:33551]	-		396 632	720
384	510 300	15.7387945	20.2503532	
24.23910156	13.49317046	16.15140621	10.17768152	
ENSG00000226864	9.255693406	17.61207168	13.68917783	
85.38914887	24.67421669	35.3237587	13.51898097	
48.46237475	-1.83406458	0.01047614	0.062877407	ATE1-
AS1 10	121928312	121951965	+ 1172	
transcribed_unitary_pseudogene	ATE1 antisense RNA 1 [Source:HGNC			
Symbol;Acc:HGNC:49496]	-	8 19	14 85	27
36	0.373299225	0.714759518	0.553353778	
3.506650885	1.003909931	1.433906802		
ENSG00000197982	779.7921694	1015.011499	965.0870368	
1254.718199	1132.272388	1323.659736	919.9635685	
1236.883441	-0.426100896	0.010486771	0.062916513	
C1orf122	1 37806979	37809454	+ 2231	
protein_coding	chromosome 1 open reading frame 122			
[Source:HGNC Symbol;Acc:HGNC:24789]	-		674 1095	987
1249	1239 1349	16.52171168	21.63956403	

20.49368413	27.06849343	24.20083406	28.22659001	
ENSG00000140527	0	0	14.06409511	8.224738897
	2.943646558	0	8.410826854	-5.49165944
0.010530887	1	WDR93	15	89690797
	+	4068	protein_coding	WD repeat domain
				93
[Source:HGNC Symbol;Acc:HGNC:26924]			-	0
	14	9	3	0
			0	0
	0.096409574	0.034425983		0.166398079
ENSG00000140511	208.2531016	290.1357071	421.4311174	
180.82408	174.5472366	191.3370263	306.606642	
182.2361143	0.752080725	0.010550725	0.063224458	HAPLN3
	15	88877288	88895626	-
				3524
protein_coding	hyaluronan and proteoglycan link protein 3			
[Source:HGNC Symbol;Acc:HGNC:21446]			-	180
	180	191	195	2.793388353
				3.915997409
5.665572824	2.46966372	2.36187041	2.583120984	
ENSG00000103194	3800.619105	3780.106752	3643.276899	
4736.586317	4689.928891	4412.526191	3741.334252	
4613.0138	-0.302191332	0.010551563	0.063224458	USP10
	16	84699978	84779922	+
				5083
protein_coding	ubiquitin specific peptidase 10			[Source:HGNC
Symbol;Acc:HGNC:12608]			-	3285
	4497	35.34353437	35.37211837	4078
				3726
				4715
44.85003681	43.99720983	41.29988227	33.95667802	5132
ENSG00000196653	84.45820233	103.8185278	56.71230814	
183.8378146	195.5660138	105.9712761	81.66301275	
161.7917015	-0.98627256	0.010553917	0.063224458	ZNF502
	3	44712643	44723831	+
				3273
protein_coding	zinc finger protein 502			[Source:HGNC
Symbol;Acc:HGNC:23718]			zf-C2H2	73
	108	1.219752081	1.508710717	112
				58
				183
2.703375048	2.849222503	1.540365511	0.820889015	214
ENSG00000013523	413.0353182	432.8861828	464.4542477	
636.9025928	629.6494555	556.3491995	436.7919162	
607.6337493	-0.475898911	0.010554642	0.063224458	ANGEL1
	14	76786178	76826246	-
				6414
protein_coding	angel homolog 1			[Source:HGNC Symbol;Acc:HGNC:19961]
	-	357	467	475
				634
				689
				567
3.04392518	3.21012455	3.430576512	4.779269478	
4.681110188	4.126673785			
ENSG00000204580	682.6073887	767.5155446	869.262792	
976.4500318	996.1072664	1175.496192	773.1285751	
1049.351164	-0.440087349	0.010562296	0.063245522	DDR1
	6	30876421	30900156	+
				9122
protein_coding	discoidin domain receptor tyrosine kinase 1			
[Source:HGNC Symbol;Acc:HGNC:2730]			-	590
	972	1090	1198	3.537175893
				4.001973669
4.51454669	5.152018496	5.207089324	6.130738413	
ENSG00000261645	3.470885027	6.488657986	0	25.11445555
	21.01877718	24.53038799	3.319847671	23.55454024

	-2.820503228	0.010572087	0.063265762	DISC1FP1	
	11	90251204	90915052	+	3175
processed_transcript	DISC1 fusion partner 1			[Source:HGNC	
Symbol;Acc:HGNC:33625]	-	3	7	0	25 23
	25	0.051674019	0.097204925	0	0.380712815
	0.315676828	0.36757191			
ENSG00000269486	20.82531016	27.80853423	16.62257307		
61.27927154	72.19493032	45.1359139	21.75213915		
59.53670525	-1.451169125	0.010573953	0.063265762		
ERVK9-11	19	38935297	38938632	-	3336
lincRNA	"endogenous retrovirus group K9, member 11				
[Source:HGNC Symbol;Acc:HGNC:51160]"	-	18	30		17
	61	79	46	0.295080952	0.396487199
0.236061594	0.884107367	1.031952356	0.643691576		
ENSG00000066557	1311.99454	937.1476034	885.885365		
621.8339194	871.8223231	690.7757257	1045.00917		
728.1439894	0.520061894	0.010602223	0.063387504		LRRC40
	1	70144805	70205620	-	2884
protein_coding	leucine rich repeat containing 40			[Source:HGNC	
Symbol;Acc:HGNC:26004]	-	1134	1011	906	619 954
	704	21.50366627	15.45574193	14.55242593	
10.37759241	14.41490274	11.39523901			
ENSG00000259865	232.5492968	179.8285213	186.7594975		
103.4715569	124.2849433	124.614371	199.7124385		
117.4569571	0.764058489	0.010602593	0.063387504		
AL390728.6	1	247187281	247188526	-	1246
lincRNA	novel transcript				
	103	136	127	8.822115267	6.864638087
7.100971682	3.99687346	4.756411974	4.758079723		
ENSG00000105877	113.3822442	174.2668145	100.7132369		
304.3872013	236.6897083	164.8442073	129.4540985		
235.3070389	-0.860169347	0.010609402	0.063403412		DNAH11
	7	21543215	21901839	+	15998
protein_coding	dynein axonemal heavy chain 11			[Source:HGNC	
Symbol;Acc:HGNC:2942]	-	98	188	103	303 259
	168	0.335007937	0.518114939	0.298245561	
0.915752583	0.705492936	0.490218419			
ENSG00000166106	5.784808379	32.44328993	27.37835565		
1.004578222	0	5.887293117	21.86881799	2.297290446	
	3.262880108	0.010617429	0.06342659	ADAMTS15	
	11	130448974	130476641	+	5673
protein_coding	ADAM metalloproteinase with thrombospondin type 1 motif				
15 [Source:HGNC Symbol;Acc:HGNC:16305]	-	5	35		28
	1	0	6	0.048200543	0.272012723
0.228637627	0.00852292	0	0.04937243		
ENSG00000125484	1905.51588	1471.998412	1693.546857		
2326.603162	2203.316164	2060.552591	1690.353716		
2196.823973	-0.37860252	0.010628328	0.063466892		GTF3C4
	9	132670035	132694955	+	9043
protein_coding	general transcription factor IIIC subunit 4				

[Source:HGNC Symbol;Acc:HGNC:4667]	-	1647	1588	1732
2316	2411	2100	9.960377099	7.742334403
8.872332573	12.383039	11.61831848	10.84058701	
ENSG00000172819	91.39997238	95.47596751	123.2026004	
43.19686355	64.8840513	35.3237587	103.3595134	
47.80155785	1.1112569	0.010659546	0.063628458	RARG
12	53210567	53232980	-	5127
protein_coding	retinoic acid receptor gamma	[Source:HGNC		
Symbol;Acc:HGNC:9866]	THR-like	79	103	126
71	36	0.842671851	0.885743278	1.138438786
0.405514469	0.603467143	0.327782089		
ENSG00000198455	482.4530188	550.6089777	460.543054	
640.9209057	740.2265007	682.9260016	497.8683501	
688.0244693	-0.466459704	0.010669342	0.063662071	ZXDB
X	57591652	57597545	+	5894
protein_coding	zinc finger X-linked duplicated B	[Source:HGNC		
Symbol;Acc:HGNC:13199]	zf-C2H2	417	594	471
696	3.869195163	4.443347419	3.701802389	810
5.233735416	5.988712785	5.512456101		
ENSG00000077684	957.9642675	885.2383395	1122.512582	
750.4199319	654.3236722	779.0851225	988.5717296	
727.9429088	0.441753672	0.010679436	0.063697437	JADE1
4	128809623	128875224	+	9129
protein_coding	jade family PHD finger 1	[Source:HGNC		
Symbol;Acc:HGNC:30027]	-	828	955	1148
794	4.960230317	4.612263625	5.825338101	716
3.956385588	3.41781391	4.06016171		
ENSG00000122965	628.2301899	793.4701766	684.4588913	
1160.287846	892.8411002	871.3193813	702.0530859	
974.8161093	-0.472648759	0.010684632	0.063703576	RBM19
12	113816738	113966371	-	5912
protein_coding	RNA binding motif protein 19	[Source:HGNC		
Symbol;Acc:HGNC:29098]	-	543	856	700
888	5.022964594	6.38371217	5.484866614	977
9.446018142	7.201429876	7.011720181		
ENSG00000125347	629.3871516	660.9161634	704.0148596	
375.712255	510.8476715	518.0817943	664.7727249	
468.2139069	0.505543915	0.010705289	0.063801856	IRF1
5	132481609	132490798	-	7799
protein_coding	interferon regulatory factor 1	[Source:HGNC		
Symbol;Acc:HGNC:6116]	IRF	544	713	720
528	3.814649958	4.030737979	4.2765744	559
2.318643067	3.1234279	3.160392613		
ENSG00000166987	411.8783566	691.5055511	849.7068236	
1209.512179	870.9084632	911.5492176	651.0302438	
997.3232867	-0.61397237	0.010720377	0.063866874	MBD6
12	57520710	57530148	+	5646
protein_coding	methyl-CpG binding domain protein 6	[Source:HGNC		
Symbol;Acc:HGNC:20445]	-	356	746	869
929	3.44829043	5.82548263	7.129865848	953

10.31066863	7.355473321	7.68105502				
ENSG00000186638	418.8201266	343.8988733	423.3867142			
297.3551537	240.3451478	257.0784661	395.3685714			
264.9262559	0.57747262	0.010741629	0.063966833	KIF24		
9	34252381	34311371	-	6131		
protein_coding	kinesin family member 24 [Source:HGNC					
Symbol;Acc:HGNC:19916]	-	362	371	433	296	263
262	3.229029161	2.667943029	3.271591235			
2.33432656	1.869317321	1.994876485				
ENSG00000182919	535.6732559	496.8458115	346.1406393			
672.0628305	630.5633154	691.7569412	459.5532356			
664.7943624	-0.533421089	0.010745524	0.063966833			
C11orf54	11	93741591	93764749	+		6269
protein_coding	chromosome 11 open reading frame 54					
[Source:HGNC	Symbol;Acc:HGNC:30204]	-	463	536		354
669	690	705	4.039033302	3.769645214		
2.615817543	5.159754808	4.796334004	5.249728976			
ENSG00000156026	476.6682104	463.4755704	515.2997653			
324.4787657	384.7350084	298.2895179	485.1478487			
335.8344307	0.530218091	0.010754739	0.063996768	MCU		
10	72692131	72887694	+	4533		
protein_coding	mitochondrial calcium uniporter [Source:HGNC					
Symbol;Acc:HGNC:23526]	-	412	500	527	323	421
304	4.970570176	4.863156472	5.38551639			
3.445228409	4.047202871	3.130645554				
ENSG00000104946	1058.619933	1190.205265	1175.313696			
1416.455293	1407.344211	1642.55478	1141.379631			
1488.784761	-0.382916492	0.010771473	0.064071401			
TBC1D17	19	49877425	49888749	+	4745	
protein_coding	TBC1 domain family member 17 [Source:HGNC					
Symbol;Acc:HGNC:25699]	-	915	1284	1202	1410	1540
1674	10.54580144	11.93061318	11.73466529			
14.36759616	14.14305082	16.4689258				
ENSG00000104327	15.04050178	5.561706845	3.911193665	0		
0	0	8.171134098	0	5.519413863		
0.0107776	1	CALB1	8	90058608	90095475	
-	7138	protein_coding	calbindin 1 [Source:HGNC			
Symbol;Acc:HGNC:1434]	-	13	6	4	0	0
0	0.099600501	0.037060277	0.025958877	0		
0	0					
ENSG00000259642	9.255693406	6.488657986	16.62257307			
53.24264577	47.52071363	21.58674143	10.78897482			
40.78336694	-1.91813709	0.010803438	0.0642299	ST20-		
AS1	15	79922771	79926993	+	4223	
antisense	ST20 antisense RNA 1 [Source:HGNC					
Symbol;Acc:HGNC:27521]	-	8	7	17	53	52
22	0.103600921	0.073082083	0.186479156			
0.606814577	0.536587881	0.243191077				
ENSG00000163257	1903.201957	1740.814243	1600.656007			
2478.294474	2133.862814	2140.031048	1748.224069			

2250.729445	-0.364714936	0.010806522	0.0642299	DCAF16
4	17800655	17810758	- 4816	
protein_coding	DDB1 and CUL4 associated factor 16 [Source:HGNC			
Symbol;Acc:HGNC:25987]	-	1645 1878	1637 2467	2335
2181	18.67988236	17.19265972	15.74579732	
24.76759787	21.12802998	21.14049846		
ENSG00000207975	0 0	0 0	22.84649694	
7.849724156	0	10.2320737	-5.776662048	0.010811476
1	MIR181B1	1	198858873	198858982
-	110	miRNA	microRNA 181b-1 [Source:HGNC	
Symbol;Acc:HGNC:31550]	-	0 0	0 0	25
8	0 0	0 0	9.90389258	
3.395027822				
ENSG00000167173	760.1238209	891.7269975	880.0185745	
1237.64037	1007.987445	1141.153649	843.9564643	
1128.927154	-0.418905923	0.010820981	0.064281984	
C15orf39	15	75195643	75212169	+ 5812
protein_coding	chromosome 15 open reading frame 39			
[Source:HGNC Symbol;Acc:HGNC:24497]	-	657	962	900
1232	1103 1163	6.182077948	7.297656619	
7.173306036	10.24911388	8.270057032	9.341145675	
ENSG00000048991	1073.660435	1047.454789	1294.605103	
985.4912358	752.1066791	755.53595	1138.573442	
831.0446216	0.454611552	0.010823695	0.064281984	R3HDM1
2	135531455	135725270	+ 7898	
protein_coding	R3H domain containing 1 [Source:HGNC			
Symbol;Acc:HGNC:9757]	-	928 1130	1324 981	823
770	6.425775666	6.308052106	7.765569511	
6.00555425	4.540893367	4.551134093		
ENSG00000125630	3016.199089	3088.601201	2694.812435	
4008.267106	3724.89286	3389.118404	2933.204242	
3707.426123	-0.337954645	0.010860306	0.064474367	POLR1B
2	112541915	112577150	+ 6329	
protein_coding	RNA polymerase I subunit B [Source:HGNC			
Symbol;Acc:HGNC:20454]	-	2607 3332	2756 3990	4076
3454	22.52685939	23.21153464	20.17188917	
30.48168821	28.06452379	25.47611927		
ENSG00000146143	1455.457788	1182.789656	1293.627305	
988.5049705	1071.043776	909.5867865	1310.624916	
989.7118444	0.404524402	0.010865685	0.064481258	PRIM2
6	57314805	57646849	+ 4667	
protein_coding	DNA primase subunit 2 [Source:HGNC			
Symbol;Acc:HGNC:9370]	-	1258 1276	1323 984	1172
927	14.74136002	12.05443422	13.13180724	
10.19432592	10.94330261	9.272310559		
ENSG00000256006	0	17.61207168	11.73358099	0 0
0	9.781884223	0	5.786887374	0.010871734
1	AC084117.1	11	18405609	18406731
+	270	sense_intronic	novel transcript	-
0	19 12	0 0	0 0	

3.102585759	2.058827392	0	0	0		
ENSG00000153113	4539.917616	3690.192492	4347.291758			
3400.497282	3149.161138	3401.874206	4192.467288			
3317.177542	0.337699154	0.01090941	0.064715617	CAST		
5	96525267	96779595	+	12448		
protein_coding	calpastatin [Source:HGNC Symbol;Acc:HGNC:1515]					-
3924	3981	4446	3385	3446	3467	17.2394788
	14.10024166	16.54521193	13.1480186	12.06352674		
	13.0017047					
ENSG00000139636	240.6480285	266.0349774	395.0305601			
192.8790186	188.2551347	174.6563625	300.5711887			
185.2635053	0.699007204	0.010916456	0.064732297	LMBR1L		
12	49096551	49110900	-	6047		
protein_coding	limb development membrane protein 1 like [Source:HGNC Symbol;Acc:HGNC:18268]					-
178	1.881126836	2.092550203	3.09488027			
1.535191215	1.484519305	1.374124458				
ENSG00000189266	2264.173999	1959.574712	2349.649594			
1489.789503	1845.083093	1720.070806	2191.132768			
1684.981134	0.378625164	0.010926299	0.06476554	PNRC2		
1	23956839	23963462	+	2779		
protein_coding	proline rich nuclear receptor coactivator 2 [Source:HGNC Symbol;Acc:HGNC:23158]					-
1483	2019	1753	38.51208147	33.53902198	2403	
40.05600936	25.80202673	31.65966899	29.44688804			
ENSG00000277310	0	0.926951141	0	12.05493866		
17.36333767	2.943646558	0.308983714				
10.78730763	-4.890302455	0.01095778	1	AC090246.1		
18	50256036	50256461	-	426		
sense_intronic	"novel transcript, sense intronic to CCDC11"					-
0	1	0	12	19	3	0
0.103496189	0	1.36198669	1.943580797	0.328743891		
ENSG00000250786	83.30124065	59.32487301	95.82424478			
5.02289111	29.24351608	43.17348286	79.48345282			
25.81329668	1.620384416	0.010991199	0.065124985	SNHG18		
5	9546200	9550609	+	1951	lincRNA small	
nucleolar RNA host gene 18	[Source:HGNC Symbol;Acc:HGNC:49007]					-
72	64	98	5	32	44	2.018226665
	1.44629426	2.326865402	0.123912167	0.714745297		
	1.052789253					
ENSG00000285077	10.41265508	5.561706845	7.822387329	0		
0	0	7.932249752	0	5.478845828		
0.011003208	1	ARHGAP11B	15	30624494		
30638805	+	2337	protein_coding	Rho GTPase activating		
protein 11B	[Source:HGNC Symbol;Acc:HGNC:15782]					-
8	0	0	0	0.210609768	0.113194805	
	0.158574639	0	0	0		
ENSG00000173227	18.51138681	2.780853423	3.911193665	0		
0	0	8.401144633	0	5.557770757		
0.011019432	1	SYT12	11	67006778	67050863	

	+	10830	protein_coding	synaptotagmin 12	[Source:HGNC	
Symbol;Acc:HGNC:18381]	-	16	3	4	0	0
0	0.080795326	0.012213124	0.017109369	0	0	
0	0					
ENSG00000176894	93.71389573	107.5263323	171.1147228			
77.3525231	38.38211485	58.87293117	124.118317			
58.20252304	1.095496601	0.011059638	0.065505107			PXMP2
12	132687606	132704991	+ 1408			
protein_coding	peroxisomal membrane protein 2	[Source:HGNC				
Symbol;Acc:HGNC:9716]	-	81	116	175	77	42
60	3.146132991	3.632363411	5.757551743			
2.644169472	1.299885901	1.989274115				
ENSG00000099814	813.344058	1154.981121	1063.844677			
1259.74109	1310.475064	1581.719417	1010.723285			
1383.978524	-0.452540673	0.011068692	0.065533341			
CEP170B 14	104865280	104896770	+ 7199			
protein_coding	centrosomal protein 170B	[Source:HGNC				
Symbol;Acc:HGNC:20362]	-	703	1246	1088	1254	1434
1612	5.340450134	7.630971415	7.000985491			
8.422219958	8.680316798	10.45295064				
ENSG00000120942	1377.941356	1351.494763	1315.13887			
1776.094297	1658.655678	1704.371357	1348.191663			
1713.040444	-0.345571195	0.01108201	0.065586794			UBIAD1
1	11273206	11296049	+ 5082			
protein_coding	UbiA prenyltransferase domain containing 1	[Source:HGNC				
Symbol;Acc:HGNC:30791]	-	1191	1458			1345
1768	1815 1737	12.81656999	12.64901831			
12.25998897	16.82088402	15.56325977	15.95552848			
ENSG00000123975	1033.166776	1106.779662	1166.51351			
781.5618567	903.8074188	820.2961743	1102.153316			
835.2218166	0.400147572	0.011091763	0.065619111			CKS2
9	89311198	89316703	+ 613			
protein_coding	CDC28 protein kinase regulatory subunit 2	[Source:HGNC				
Symbol;Acc:HGNC:2000]	-	893	1194	1193	778	989
836	79.66832697	85.87718701	90.15346535			
61.36494354	70.30632782	63.66369464				
ENSG00000117152	876.9769502	531.1430037	823.3062664			
503.2936892	316.1955176	601.4851134	743.8087401			
473.6581068	0.650953174	0.011118471	0.065751671			RGS4
1	163068775	163076802	+ 4836			
protein_coding	regulator of G protein signaling 4	[Source:HGNC				
Symbol;Acc:HGNC:10000]	-	758	573	842	501	346
613	8.571910466	5.223989409	8.065443535			
5.009018667	3.117801089	5.917254085				
ENSG00000245025	5.784808379	18.53902282	12.71137941			
1.004578222	0	0.981215519	12.3450702	0.661931247		
4.246653784	0.01116988	1	AC107959.1	8		
22984596	23019335	-	2268	antisense		
"novel transcript, antisense to RH0BTB2"				-		5
20	13	1	0	1	0.120565116	

0.388795208	0.265523374	0.021318575	0	0.02058273	
ENSG00000179046	519.4757924	558.9515379	205.3376674		
772.5206527	1348.857179	900.7558469	427.9216659		
1007.377893	-1.235414925	0.011193919	0.066172251		TRIML2
4	188091273	188109603	-	3050	
protein_coding	tripartite motif family like 2				
[Source:HGNC Symbol;Acc:HGNC:26378]	-	449	603	210	769
918	8.050840347	8.716686583	3.189494894		1476
12.19067398	21.08847212	14.05040613			
ENSG00000164163	4865.023846	4392.821456	4280.801466		
3532.097029	3912.234135	3344.963706	4512.882256		
3596.431623	0.327276137	0.011203804	0.066205083		ABCE1
4	145097932	145129179	+	6265	
protein_coding	ATP binding cassette subfamily E member 1				
[Source:HGNC Symbol;Acc:HGNC:69]	-	4205	4739	4378	3516
3409	36.70621783	33.35028821	32.37107617		4281
27.13494887	29.77712405	25.4010671			
ENSG00000247626	386.4251997	543.1933685	451.7428683		
664.0262048	654.3236722	632.8840101	460.4538122		
650.4112957	-0.496886861	0.011223874	0.066298054		MARS2
2	197705369	197708387	+	3019	
protein_coding	"methionyl-tRNA synthetase 2, mitochondrial				
[Source:HGNC Symbol;Acc:HGNC:25133]"	-		334	586	462
661	716	645	6.050316121	8.557924702	
7.08894029	10.58618704	10.33495303	9.97338622		
ENSG00000233461	54.37719876	81.57170039	68.44588913		
9.041203998	40.20983461	20.60552591	68.13159609		
23.2855215	1.545527388	0.011235079	0.066338608		
AL445524.1	1	231522388	231528556	-	1021
antisense	novel transcript				
70	9	44	21	2.517484635	3.800063799
3.175958023	0.426204454	1.877956517	0.96015111		
ENSG00000130762	19.66834849	9.269511408	15.64477466	0	
0	2.943646558	14.86087818	0.981215519		
3.929165938	0.011250383	1	ARHGEF16	1	
3454426	3481113	+	5563	protein_coding	Rho guanine nucleotide
exchange factor	16	[Source:HGNC Symbol;Acc:HGNC:15515]	-	17	
10	16	0	0	3	0.167122366
0.079254677	0.133233482	0	0	0.025174348	
ENSG00000272948	0	0	7.822387329	39.17855066	
24.67421669	10.79337071	2.607462443			
24.88204602	-3.237774789	0.011259656	0.066458056		
AP001412.1	21	37267784	37268497	+	714
antisense	"novel transcript, antisense to DSCR3"				
0	0	8	39	27	11
0.519032116	2.640995199	1.647874564	0.719184815		
ENSG00000173915	1465.870443	1466.436705	1492.120383		
639.9163274	1245.591013	1152.928235	1474.809177		
1012.811859	0.54182403	0.011264944	0.066463602		ATP5MD
10	103389041	103396492	-	924	

protein_coding	ATP synthase membrane subunit	DAPIT	[Source:HGNC				
Symbol;Acc:HGNC:30889]	-	1267	1582	1526	637	1363	
1175	74.9893098	75.48635687	76.50415421				
33.33256062	64.28097899	59.36246564					
ENSG00000258982	9.255693406	6.488657986	7.822387329	0			
0	0	7.855579574	0	5.465592174			
0.011277	1	AL133523.1	14	100207407			
100238555	-	331	antisense	"novel transcript,			
antisense to YY1"	-	8	7	8	0	0	
0	1.321772482	0.932403734	1.11960402	0			
0	0						
ENSG00000110880	6417.666415	4856.297027	5425.803411				
3921.873379	4518.123234	4572.464321	5566.588951				
4337.486978	0.359694015	0.011315335	0.066735159	COR01C			
12	108645109	108731596	-	6532			
protein_coding	coronin 1C	[Source:HGNC	Symbol;Acc:HGNC:2254]	-			
5547	5239	5549	3904	4944	4660	46.44154963	
35.36194793	39.35238012	28.89780455	32.98305536				
33.3031855							
ENSG00000225222	0	0	0.977798416	20.09156444	0		
18.64309487	0.325932805	12.9115531	-5.147136247				
0.011321159	1	CHCHD4P5	1	246178778			
246179204	+	427	processed_pseudogene				
coiled-coil-helix-coiled-coil-helix domain containing 4	pseudogene 5						
[Source:HGNC	Symbol;Acc:HGNC:44493]	-	0	0	1		
20	0	19	0	0	0.108486221		
2.264661709	0	2.077168662					
ENSG00000196535	509.0631373	761.0268866	812.5504838				
976.4500318	811.5075711	1286.373546	694.2135026				
1024.77705	-0.560664781	0.011336733	0.066835569	MY018A			
17	29071124	29180412	-	15047			
protein_coding	myosin XVIIIIA	[Source:HGNC	Symbol;Acc:HGNC:31104]				
-	440	821	831	972	888	1311	
1.599180437	2.405620932	2.558312299	3.123327755				
2.571707921	4.067230696						
ENSG00000259953	4.627846703	7.415609127	11.73358099	0			
0	0	7.925678941	0	5.481198169			
0.011346258	1	AL138756.1	9	112032555			
112037730	-	4836	sense_overlapping	"novel			
transcript, overlapping	SUSD1"	-	4	8	12	0	
0	0	0.045234356	0.07293528	0.114946939			
0	0						
ENSG00000250362	9.255693406	7.415609127	6.844588913	0			
0	0	7.838630482	0	5.462619892			
0.011363096	1	AC008592.1	5	95861786			
95874519	+	850	processed_transcript	novel			
transcript	-	8	8	7	0	0	
0	0.514713755	0.414958838	0.381488605	0	0		
0							
ENSG00000075643	204.7822166	136.2618177	241.5162088				

110.5036044	112.4047649	105.9712761	194.1867477	
109.6265485	0.823930282	0.011395319	0.067155067	MOCOS
18	36187519	36272157	+ 6281	
protein_coding	molybdenum cofactor sulfurase	[Source:HGNC		
Symbol;Acc:HGNC:18234]	-	177 147	247 110	123
108	1.541129685	1.031864091	1.821673815	
0.846769308	0.853365175	0.802677331		
ENSG00000169213	1232.164185	972.3717467	1366.962186	
826.7678767	595.8366401	1037.144804	1190.499372	
819.9164403	0.538157074	0.011401169	0.067163648	RAB3B
1	51907956	51990764	- 12844	
protein_coding	"RAB3B, member RAS oncogene family	[Source:HGNC		
Symbol;Acc:HGNC:9778]"	-	1065 1049	1398 823	652
1057	4.534652624	3.600884151	5.042075335	
3.098137973	2.212105811	3.841675927		
ENSG00000116288	2459.700523	2905.991827	3173.933659	
2090.52728	2026.027348	2454.020014	2846.542003	
2190.191547	0.378473632	0.011416752	0.06722954	PARK7
1	7954291 7985505 +	2397	protein_coding	
Parkinsonism associated deglycase	[Source:HGNC	Symbol;Acc:HGNC:16369]		
-	2126 3135	3246 2081	2217 2501	
48.50538308	57.66382794	62.73110494	41.97640706	
40.30475233	48.70703505			
ENSG00000279349	5.784808379	12.05036483	5.866790497	0
0	0	7.900654569	0	5.476733519
0.011427142	1	AC092692.1	3	112525548
112528142	-	2595	TEC	TEC
6	0	0	0	0.105372517
0.107106627	0	0	0	0.220871636
ENSG00000134545	0	0	0	24.67421669
5.887293117	0	10.18716994	-5.770504688	0.01146573
1	KLRC1	12	10442264	10454685
2698	protein_coding	killer cell lectin like receptor C1		
[Source:HGNC	Symbol;Acc:HGNC:6374]	-	0	0
0	27	6	0	0
0.436094306	0.10381386			
ENSG00000198887	1699.576702	1529.469382	1494.07598	
1261.750247	1140.497127	1260.861943	1574.374021	
1221.036439	0.36649005	0.0114687	0.067509442	SMC5
9	70258962	70354888	+ 6637	
protein_coding	structural maintenance of chromosomes 5	[Source:HGNC		
Symbol;Acc:HGNC:20465]	-	1469 1650	1528 1256	1248
1285	12.10443969	10.96089669	10.66483136	
9.149956687	8.194101995	9.038104239		
ENSG00000090905	1780.564019	1609.187181	1829.460837	
1496.821551	1070.129916	1354.077417	1739.737345	
1307.009628	0.412781418	0.011495385	0.067630833	TNRC6A
16	24610209	24827632	+ 12924	
protein_coding	trinucleotide repeat containing	6A [Source:HGNC		
Symbol;Acc:HGNC:11969]	-	1539 1736	1871 1490	1171

1380	6.512329756	5.922249903	6.706243123	
5.574302535	3.948376364	4.984575435		
ENSG00000234745	1867.336145	2671.473188	2466.985404	
1014.624004	1877.982048	1898.65203	2335.264912	
1597.086028	0.548226388	0.011498171	0.067630833	HLA-B
6	31269491	31357188	- 3051	
protein_coding	"major histocompatibility complex, class I, B [Source:HGNC Symbol;Acc:HGNC:4932]"			
	-	1614	2882	2523
1010	2055 1935	28.93050639	41.64719217	
38.30694328	16.00591044	29.35135913	29.60634513	
ENSG00000006007	1433.475516	1283.82733	1292.649506	
907.1341345	1095.717993	1053.825468	1336.650784	
1018.892532	0.391099424	0.011503701	0.067637339	GDE1
16	19501689	19522145	- 4416	
protein_coding	glycerophosphodiester phosphodiesterase 1 [Source:HGNC Symbol;Acc:HGNC:29644]			
	-	1239 1385	1322 903	1199
1074	15.34394222	13.82785022	13.86771304	
9.886894548	11.83174269	11.35327748		
ENSG00000004776	115.6961676	52.83621503	192.626288	
22.10072088	73.10879019	44.15469838	120.3862235	
46.45473648	1.370939306	0.011524008	0.067730685	HSPB6
19	35754569	35758079	- 1721	
protein_coding	heat shock protein family B (small) member 6 [Source:HGNC Symbol;Acc:HGNC:26511]			
	-	100	57	197
22	80 45	3.17770694	1.460252449	
5.302587108	0.618077632	2.02566542	1.220612124	
ENSG00000127837	2202.855031	2805.881103	2423.962274	
2997.661415	3018.479175	3597.136094	2477.566136	
3204.425561	-0.37078799	0.011532323	0.067753507	AAMP
2	218264123	218270257	- 3140	
protein_coding	angio associated migratory cell protein [Source:HGNC Symbol;Acc:HGNC:18]			
	-	1904 3027	2479 2984	3303
3666	33.16133521	42.50272067	36.5720525	
45.94839937	45.83925212	54.50154935		
ENSG00000142784	1225.222415	1300.512451	1546.877094	
1811.254534	1795.734659	1685.728262	1357.53732	
1764.239152	-0.377731686	0.01155473	0.06785907	WDTC1
1	27234516	27308633	+ 6024	
protein_coding	WD and tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:HGNC:29175]			
	-	1059 1403	1582 1803	1965
1718	9.614035239	10.26849192	12.16533217	
14.47144772	14.21465061	13.31325444		
ENSG00000172986	541.4580642	378.1960655	475.2100303	
323.4741875	341.7835942	272.7779144	464.95472	
312.6785654	0.571078061	0.011569692	0.067895731	GXYLT2
3	72888073	72998138	+ 3667	
protein_coding	glucoside xylosyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:33383]			
	-	468 408	486 322	374
278	6.979585888	4.905499221	6.139426651	
4.245669444	4.444462948	3.538994778		

ENSG00000271303	104.1265508	223.3952249	115.3802131			
199.9110662	207.4461922	458.2276476	147.6339963			
288.528302	-0.964101534	0.011572115	0.067895731	SRXN1		
20	646615	653370	-	2698	protein_coding	
sulfiredoxin 1	[Source:HGNC Symbol;Acc:HGNC:16132]				-	90
241	118	199	227	467	1.824295878	
3.938302356	2.026014353	3.566254622	3.666422502			
8.0801788						
ENSG00000168056	2010.799392	1433.993415	3423.272255			
1317.002049	880.9609218	1173.533761	2289.355021			
1123.832244	1.026584937	0.011574297	0.067895731	LTBP3		
11	65538805	65558930	-	10298		
protein_coding	latent transforming growth factor beta binding protein					
3	[Source:HGNC Symbol;Acc:HGNC:6716]				-	1738 1547 3501
1311	964	1196	9.229785271	6.623253599		
15.74859009	6.155325456	4.079272749	5.421560743			
ENSG00000131149	2754.72575	2698.354771	3445.761619			
2421.033515	2131.121234	2344.123876	2966.280713			
2298.759542	0.367969802	0.011591342	0.067969636	GSE1		
16	85169525	85676204	+	13387		
protein_coding	Gse1 coiled-coil protein [Source:HGNC					
	Symbol;Acc:HGNC:28979]				-	2381 2911 3524 2410 2332
2389	9.726819231	9.587224563	12.19424994			
8.704322944	7.591085455	8.330650644				
ENSG00000148700	514.8479457	559.8784891	721.6152311			
413.8862275	362.8023713	465.0961562	598.7805553			
413.9282517	0.533489892	0.011605063	0.068014548	ADD3		
10	109996368	110135565	+	6541		
protein_coding	adducin 3 [Source:HGNC Symbol;Acc:HGNC:245]				-	
445	604	738	412	397	474 3.720579378	
4.0712404	5.226544693	3.045469703	2.644873805			
3.382830428						
ENSG00000091409	735.8276258	581.1983653	694.2368755			
470.1426079	439.566601	529.8563805	670.4209555			
479.8551965	0.481997261	0.011613418	0.068014548	ITGA6		
2	172427354	172506282	+	6533		
protein_coding	integrin subunit alpha 6 [Source:HGNC					
	Symbol;Acc:HGNC:6142]				-	636 627 710 468 481
540	5.324013772	4.231446367	5.034404957			
3.463653278	3.20841853	3.8585767				
ENSG00000144730	769.3795144	575.6366585	474.2322318			
698.1818643	1071.957636	910.5680021	606.4161349			
893.5691675	-0.560672969	0.011618238	0.068014548	IL17RD		
3	57089982	57170306	-	9561		
protein_coding	interleukin 17 receptor D [Source:HGNC					
	Symbol;Acc:HGNC:17616]				-	665 621 485 695 1173
928	3.803759411	2.863665187	2.349853981			
3.514655016	5.346299591	4.530964858				
ENSG00000260941	149.2480562	123.2845017	94.84644637			
160.7325155	228.4649694	253.153604	122.4596681			

214.1170296	-0.808409172	0.011618551	0.068014548		
LINC00622	1	119597702	119599271	-	1570
	sense_overlapping	long intergenic	non-protein coding	RNA	
622 [Source:HGNC Symbol;Acc:HGNC:44251]	-		129	133	97
160	250	258	4.493500255	3.734959927	
2.862032345	4.927442292	6.939033018	7.671249171		
ENSG00000163346	704.5896605	687.7977465	861.4404046		
828.7770332	991.537967	1454.1614	751.2759372		
1091.492133	-0.538748567	0.011621247	0.068014548		PBXIP1
1	154944076	154956123	-	3851	
protein_coding	PBX homeobox interacting protein 1 [Source:HGNC				
Symbol;Acc:HGNC:21199]	-	609	742	881	825
1482	8.648454138	8.495018806	10.59753466		1085
10.35813689	12.2776378	17.96473109			
ENSG00000198483	290.3973806	266.0349774	274.7613549		
111.5081826	137.0789816	234.5105092	277.064571		
161.0325578	0.782721994	0.011646241	0.068134746		
ANKRD35	1	145866560	145885866	-	3363
protein_coding	ankyrin repeat domain 35 [Source:HGNC				
Symbol;Acc:HGNC:26323]	-	251	287	281	111
239	4.081704563	3.762608111	3.870632228		150
1.595869328	1.94367205	3.317546887			
ENSG00000152422	326.2631926	297.5513162	253.2497898		
178.8149235	198.3075934	189.3745953	292.3547662		
188.8323707	0.629619965	0.011655798	0.068164569		XRCC4
5	83077498	83353787	+	2676	
protein_coding	X-ray repair cross complementing 4 [Source:HGNC				
Symbol;Acc:HGNC:12831]	-	282	321	259	178
193	5.763120655	5.288748087	4.483489023		217
3.216141216	3.533720716	3.366799358			
ENSG00000134215	192.0556382	200.2214464	274.7613549		
141.6455293	111.490905	143.2574658	222.3461465		
132.1313001	0.752174897	0.011664738	0.068180634		VAV3
1	107571160	107965144	-	7271	
protein_coding	vav guanine nucleotide exchange factor 3 [Source:HGNC				
Symbol;Acc:HGNC:12659]	-	166	216	281	141
146	1.248557812	1.309765554	1.790253911		122
0.937618536	0.731179967	0.937356396			
ENSG00000213676	961.4351525	1196.693923	1326.872451		
883.0242572	596.7505	957.666347	1161.667175		
812.480368	0.516624828	0.011667465	0.068180634		ATF6B
6	32115264	32128253	-	3629	
protein_coding	activating transcription factor 6 beta [Source:HGNC				
Symbol;Acc:HGNC:2349]	TF_bZIP	831	1291	1357	879
976	12.52301118	15.68459222	17.32189235		653
11.71124653	7.841241158	12.55477359			
ENSG00000166169	322.7923075	337.4102153	265.9611692		
575.6233212	415.8062442	399.3547164	308.7212307		
463.5947606	-0.586350206	0.011686168	0.068263831		POLL
10	101578882	101588270	-	5420	

protein_coding	DNA polymerase lambda [Source:HGNC					
Symbol;Acc:HGNC:9184]	-	279	364	272	573	455
407	2.815137613	2.960983962	2.324727608			
5.111596357	3.658227481	3.505428865				
ENSG00000204469	8224.840553	11811.21144	13825.09181			
17415.36806	12784.89969	15977.1323	11287.04793			
15392.46668	-0.447440992	0.011721226	0.06844247			PRRC2A
6	31620720	31637771	+	9115		
protein_coding	proline rich coiled-coil 2A [Source:HGNC					
Symbol;Acc:HGNC:13918]	-	7109	12742	14139	17336	13990
16283	42.65270254	61.63322396	71.85623818			
91.958831	66.88359975	83.39188403				
ENSG00000272843	16.19746346	1.853902282	13.68917783			0
0	0.981215519	10.58018119	0.32707184			
4.930952703	0.011722844	1	AC211476.2	7		
72924418	72925125	-	708	antisense		"novel
transcript, antisense to POM121"		-	14	2		14
0	0	1	1.081407783	0.124546262		
0.916003712	0	0	0.065934509			
ENSG00000147457	2530.275185	2658.495872	2438.62925			
3100.128393	3164.696755	3198.762593	2542.466769			
3154.529247	-0.311149896	0.011748002	0.068533119			CHMP7
8	23243637	23262000	+	4698		
protein_coding	charged multivesicular body protein 7 [Source:HGNC					
Symbol;Acc:HGNC:28439]	-	2187	2868	2494	3086	3463
3260	25.45836351	26.91535377	24.5915494			
31.76026561	32.1216671	32.39295916				
ENSG00000253106	38.1797353	28.73548537	29.33395248			
82.37541421	74.02265007	66.72265532	32.08305772			
74.3735732	-1.216164249	0.011748208	0.068533119			
AC090198.1	8	124488510	124491643	+		2355
antisense		"novel transcript, antisense to TATDN1"	-			
33	31	30	82	81	68	0.766333377
0.580369713	0.590109762	1.683542783	1.498831132			
1.347919751						
ENSG00000178685	290.3973806	632.1806781	535.8335321			
680.0994563	714.6384241	880.150321	486.1371969			
758.2960671	-0.639539581	0.011751998	0.068533119			PARP10
8	143977153	144012772	-	6033		
protein_coding	poly(ADP-ribose) polymerase family member 10					
[Source:HGNC Symbol;Acc:HGNC:25895]	-		251	682		548
677	782	897	2.27528136	4.984080031		
4.207747678	5.425709782	5.648485594	6.940730052			
ENSG00000107890	716.1592773	663.6970168	640.4579626			
499.2753763	541.0050474	407.2044406	673.4380856			
482.4949548	0.480421686	0.011754683	0.068533119			
ANKRD26 10	26991914	27100498	-	7941		
protein_coding	ankyrin repeat domain 26 [Source:HGNC					
Symbol;Acc:HGNC:29186]	-	619	716	655	497	592
415	4.262949282	3.975317168	3.820925411			

3.026093963	3.248666338	2.439601752					
ENSG00000118762	1298.111	1189.278314	1132.290566				
967.4088278	868.1668835	935.0983901	1206.55996				
923.5580338	0.385444123	0.011787316	0.068697179	PKD2			
4	88007668	88077777	+	5498			
protein_coding	"polycystin 2, transient receptor potential cation channel [Source:HGNC Symbol;Acc:HGNC:9009]"						
	1158	963	950	953	11.16047899	10.28859042	
	9.756774771	8.468817384	7.529696433	8.091596185			
ENSG00000179627	97.18478076	114.9419415	113.4246163				
193.8835969	200.1353132	160.9193452	108.5171128				
184.9794184	-0.768240748	0.011796492	0.068724457	ZBTB42			
14	104800596	104804712	+	3905			
protein_coding	zinc finger and BTB domain containing 42 [Source:HGNC Symbol;Acc:HGNC:32550]						
	164	1.176394433	1.400021177	1.376066451			
2.389667556	2.443890113	1.960509024					
ENSG00000183850	26.61011854	21.31987624	25.42275882	0			
	5.483159264	5.887293117	24.45091787	3.790150794			
	2.681653818	0.011801316	0.068726369	ZNF730	19		
	23075210	23147219	+	3291	protein_coding		
	zinc finger protein 730 [Source:HGNC Symbol;Acc:HGNC:32470]						
	zf-C2H2	23	23	26	0	6	
0.382203506	0.308129949	0.365972052	0	0.079447817			
	0.085107808						
ENSG00000173898	919.7845322	1276.411721	1467.675423				
1819.29116	1506.041078	1723.014452	1221.290559				
1682.78223	-0.46158636	0.011823014	0.068806189	SPTBN2			
11	66685248	66729226	-	9642			
protein_coding	"spectrin beta, non-erythrocytic 2 [Source:HGNC Symbol;Acc:HGNC:11276]"						
	1756	4.509150328	6.296522666	7.21134081	1648		
9.08139445	7.44815452	8.501653886					
ENSG00000222031	0	0	0	14.06409511	15.53561792		
	0	0	9.866571008	-5.72287438	0.011825198		
	1	AC023469.1	2	151001220	151048774		
	-	469	lincRNA novel transcript	-	0		
	0	0	14	17	0	0	
	1.443299328	1.579554723	0				
ENSG0000060491	1166.217369	1949.378249	1904.751315				
2188.975946	2101.877718	2777.821136	1673.448978				
2356.224933	-0.492963089	0.011826292	0.068806189	OGFR			
20	62804835	62814000	+	4702			
protein_coding	opioid growth factor receptor [Source:HGNC Symbol;Acc:HGNC:15768]						
	2831	11.72391389	19.71925967	19.19149396	2300		
22.40659281	21.31590662	28.1062743					
ENSG00000167112	1266.873035	1642.557422	1545.899296				
1922.762717	2035.165947	1841.74153	1485.109917				
1933.223398	-0.379874435	0.011828525	0.068806189	TRUB2			

9	128305161	128322742	-	6125	
protein_coding	TruB pseudouridine synthase family member 2				
[Source:HGNC Symbol;Acc:HGNC:17170]			-	1095 1772	1581
1914	2227 1877	9.776935248		12.75532658	
11.95716529	15.10904647	15.84428777		14.30553866	
ENSG00000149231	1674.123545	1294.950744		1202.692052	
1048.779664	1106.684312	929.2110969		1390.58878	
1028.225024	0.434793256	0.011865337		0.068989182	CCDC82
11	96352769	96389956	-	17313	
protein_coding	coiled-coil domain containing 82 [Source:HGNC				
Symbol;Acc:HGNC:26282]			-	1447 1397 1230 1044	1211
947	4.570786277	3.557607525		3.291055742	
2.915609698	3.048108429	2.553428408			
ENSG00000125741	1237.948993	1152.200268		1307.316482	
1580.201543	1554.475651	1592.512788		1232.488581	
1575.729994	-0.354536898	0.01186901		0.068989182	OPA3
19	45527427	45602212	-	9999	
protein_coding	"OPA3, outer mitochondrial membrane lipid metabolism				
regulator [Source:HGNC Symbol;Acc:HGNC:8142]"			-	1070 1243	
1337	1573 1701	1623 5.852237222		5.480857595	
6.19408691	7.606298604	7.413210684		7.577186682	
ENSG00000139517	481.2960571	370.7804563		496.7215954	
547.495131	732.0017618	653.489536		449.5993696	
644.3288096	-0.520207493	0.011878001		0.069015206	LNx2
13	27545911	27620404	-	4692	
protein_coding	ligand of numb-protein X 2 [Source:HGNC				
Symbol;Acc:HGNC:20421]			-	416 400 508 545	801
666	4.848752761	3.75868513		5.015429899	
5.616163146	7.439317777	6.626165235			
ENSG00000080839	1195.141411	940.855408		1051.133297	
723.2963199	736.5710612	892.9061227		1062.376705	
784.2578346	0.437370632	0.011888742		0.069051369	RBL1
20	36996349	37095995	-	5954	
protein_coding	RB transcriptional corepressor like 1 [Source:HGNC				
Symbol;Acc:HGNC:9893]			-	1033 1015 1075 720	806
910	9.488251853	7.516076122		8.363770161	
5.846889452	5.899087109	7.134747334			
ENSG00000235636	69.41770054	76.00999355		58.66790497	
144.659264	129.7681026	111.8585692		68.03186635	
128.7619786	-0.920154882	0.011900614		0.069094071	NUS1P1
X	47512602	47513483	-	882	
processed_pseudogene	NUS1 pseudogene 1 [Source:HGNC				
Symbol;Acc:HGNC:38472]			-	60 82 60 144	142
114	3.720294995	4.099012335		3.151266416	
7.893963672	7.01581869	6.033680398			
ENSG00000234664	65.94681552	52.83621503		71.37928438	
25.11445555	28.3296562	22.56795695		63.38743831	
25.33735623	1.32155303	0.011922262		0.069193477	
HMG2P5 15	29730713	29730985	+	273	
processed_pseudogene	high mobility group nucleosomal binding domain				

2 pseudogene 5 [Source:HGNC Symbol;Acc:HGNC:33568]	-	57
57 73 25 31 23	11.41844387	
9.205474231 12.38690107 4.427703983	4.948318491	
3.932884794		
ENSG00000135823 1209.024951 1076.190275	998.3321829	
1461.661313 1444.812466 1358.983494	1094.515803	
1421.819091 -0.377976476 0.011952555	0.069342962	STX6
1 180972712 181023121	- 6477	
protein_coding syntaxin 6 [Source:HGNC Symbol;Acc:HGNC:11441]	-	
1045 1161 1021 1455 1581 1385	8.823423124	
7.903005436 7.302209704 10.86151266	10.6369366	
9.982099906		
ENSG00000226291 0 2.780853423 1.955596832	34.15565955	
10.96631853 6.868508636 1.578816752	17.33016224	
-3.416511651 0.011964655 1	AC091729.2	7
1080863 1082178 + 302	antisense novel	
transcript - 0 3 2 34 12	7	
0 0.43797394 0.306778916 5.44343687		
1.731541484 1.082024596		
ENSG00000179532 411.8783566 406.0045997	436.0980936	
765.4886052 458.7576585 619.1469928	417.9936833	
614.4644188 -0.555297646 0.011970297	0.069419549	DNHD1
11 6497260 6593758 + 19629	protein_coding dynein	
heavy chain domain 1 [Source:HGNC Symbol;Acc:HGNC:26532]	-	
356 438 446 762 502 631	0.991851229	
0.983806966 1.052541285 1.876972946	1.114459113	
1.500642424		
ENSG00000142459 453.5289769 629.3998246 650.2359467		
742.3833061 827.0431891 862.4884416 577.7215828		
810.6383122 -0.487457258 0.011977752	0.069436442	EVI5L
19 7830233 7864976 + 6252	protein_coding	
ecotropic viral integration site 5 like [Source:HGNC Symbol;Acc:HGNC:30464]	-	392 679 665 739 905
879 3.428955195 4.788337603 4.927256054		
5.715137527 6.307949497 6.563204577		
ENSG00000179950 4939.069394 5773.051705 5711.320549		
7199.812117 6161.243294 7249.220258 5474.480549		
6870.09189 -0.32741594 0.011995304 0.069511834		PUF60
8 143816344 143829859 - 5424		
protein_coding poly(U) binding splicing factor 60 [Source:HGNC Symbol;Acc:HGNC:17042]	-	4269 6228 5841 7167 6742
7388 43.04286656 50.62474877 49.88500053		
63.88794811 54.16611221 63.58479007		
ENSG00000261716 121.480976 126.9923063 147.6475608		
81.37083598 59.40089203 70.6475174 132.040281		
70.47308181 0.907324535 0.012013326 0.069578854		
HIST2H2BC 1 149844498 149850937 - 6440		
transcribed_unprocessed_pseudogene histone cluster 2 H2B family member c (pseudogene) [Source:NCBI gene;Acc:337873]	-	
105 137 151 81 65 72 0.891657659		

	0.937926179	1.086159327	0.608135517	0.439831254	
	0.521906451				
ENSG00000141522	4421.907525	8574.298053	7187.796157		
9776.555257	8441.323688	9924.994979	6728.000578		
9380.957975	-0.479337593	0.012015973	0.069578854		
ARHGDI17	81867721	81871406	-	2903	
protein_coding	Rho GDP dissociation inhibitor alpha [Source:HGNC				
Symbol;Acc:HGNC:678]	-	3822	9250	7351	9732 9237
10115	72.00097204	140.4845792	117.3010346		
162.0900219	138.6572254	162.6540521			
ENSG00000177946	534.5162942	552.4628799	558.3228956		
692.154395	761.2452779	760.4420276	548.4340233		
737.9472335	-0.428110593	0.012069731	0.069851811		
CENPBD1	89969773	89972832	-	3060	
protein_coding	CENPB DNA-binding domain containing 1 [Source:HGNC				
Symbol;Acc:HGNC:28272]	-	462	596	571	689 833
775	8.256866481	8.587342628	8.644047358		
10.8867691	11.86266245	11.82296249			
ENSG00000183291	4564.213811	3803.280531	3615.898543		
2919.304313	3554.001063	2754.271963	3994.464295		
3075.859113	0.376692566	0.012076106	0.069851811		
SELENOF	86862445	86914424	-	2201	
protein_coding	selenoprotein F [Source:HGNC Symbol;Acc:HGNC:17705]				
-	3945	4103	3698	2906	3889 2807
98.02157529	82.18932853	77.83041032	63.83763421		
76.99747764	59.53445824				
ENSG00000168300	550.7137576	569.1480005	455.6540619		
349.5932213	427.6864226	301.2331645	525.17194		
359.5042695	0.546140471	0.012076819	0.069851811		PCMTD1
8	51817575	51899186	-	7323	
protein_coding	protein-L-isoaspartate (D-aspartate) O-				
methyltransferase domain containing 1 [Source:HGNC					
Symbol;Acc:HGNC:30483]	-	476	614	466	348 468
307	3.554779208	3.696692233	2.947808986		
2.297689959	2.784937266	1.95702051			
ENSG00000089060	188.5847531	230.8108341	196.5374816		
353.6115342	241.2590076	383.6552681	205.311023		
326.17527	-0.666315323	0.012082073	0.069855767		SLC8B1
12	113298759	113359493	-	6768	
protein_coding	solute carrier family 8 member B1 [Source:HGNC				
Symbol;Acc:HGNC:26175]	-	163	249	201	352 264
391	1.317109757	1.62208256	1.375745697		
2.514684645	1.699817024	2.696885096			
ENSG00000198959	19.66834849	75.08304241	113.4246163		
35.16023777	14.62175804	13.73701727	69.39200239		
21.17300436	1.717709958	0.012105802	0.0699665		TGM2
20	38127387	38166578	-	8036	
protein_coding	transglutaminase 2 [Source:HGNC Symbol;Acc:HGNC:11778]				
-	17	81	116	35	16 14
0.1156921	0.444405115	0.668683361	0.210585921		

0.086763818	0.081326886						
ENSG00000212242	0	0	0	20.09156444	3.65543951		
	1.962431039	0	8.569811663	-5.517538082			
0.012118667	1	RNA5SP219	6	136630243			
136630355	+	113	rRNA_pseudogene	"RNA, 5S ribosomal			
pseudogene 219	[Source:HGNC	Symbol;Acc:HGNC:43119]"	-	0			
	0	0	20	4	2	0	0
	8.557615485	1.542553181	0.826223585				
ENSG00000165801	1470.49829	1509.076457	1812.838264				
1173.347363	993.3656868	1393.326038	1597.471004				
1186.679696	0.429227132	0.012126037	0.070032589				
ARHGEF40	14	21070270	21090240	+	8189		
	protein_coding	Rho guanine nucleotide exchange factor 40					
	[Source:HGNC	Symbol;Acc:HGNC:25516]	-	1271	1628	1854	
	1168	1087	1420	8.488078594	8.765112354		
10.48772556	6.896253036	5.784386059	8.09475128				
ENSG00000073150	48.59239038	38.93194792	24.4449604				
113.5173391	51.17615314	104.9900606	37.32309957				
89.8945176	-1.270521003	0.012126399	0.070032589		PANX2		
	22	50170731	50180294	+	3102		
protein_coding	pannexin 2	[Source:HGNC	Symbol;Acc:HGNC:8600]	-			
	42	42	25	113	56	107	0.740461035
	0.596954809	0.373336689	1.761318377	0.786692177			
	1.610230394						
ENSG00000186141	2814.887757	2446.224061	2208.846622				
3298.030303	3202.16501	3012.331645	2489.986147				
3170.842319	-0.349059458	0.012134488	0.070052839		POLR3C		
	1	145824088	145842505	+	2793		
protein_coding	RNA polymerase III subunit C	[Source:HGNC	Symbol;Acc:HGNC:30076]	-	2433	2639	2259
	3070	47.63935644	41.65838338	37.46689912		3504	
56.83307618	54.67033808	51.31135408					
ENSG00000136160	19.66834849	25.95463194	75.29047804				
9.041203998	6.397019142	14.71823279	40.30448616				
10.05215198	2.007624495	0.012163096	0.070191488		EDNRB		
	13	77895481	77975529	-	5607		
protein_coding	endothelin receptor type B	[Source:HGNC	Symbol;Acc:HGNC:3180]	-	17	28	77
	15	0.165810901	0.220171668	0.636154531		7	
0.077609193	0.054403405	0.124883982					
ENSG00000188171	8.09873173	3.707804563	11.73358099		0		
	0	7.846705762	0	5.464185453			
0.012180324	1	ZNF626	19	20620061	20661596		
	-	6713	protein_coding	zinc finger protein 626			
	[Source:HGNC	Symbol;Acc:HGNC:30461]	zf-C2H2	7	4	12	
	0	0	0	0.05702642	0.026271042		
0.082807001	0	0	0				
ENSG00000163714	5444.661646	5054.664571	4828.368579				
3990.184698	4426.737246	3929.768155	5109.231599				
4115.563367	0.311851726	0.012193186	0.070320371		U2SURP		

3	142964497	143060546	+	11118	
protein_coding	U2 snRNP associated SURP domain containing				
[Source:HGNC Symbol;Acc:HGNC:30855]		-	4706	5453	4938
3972	4844	4005	23.14834604	21.62433626	
20.57438544	17.27363691	18.98611305	16.81596855		
ENSG00000092108	1231.007223	1183.716607	1001.265578		
745.3970407	950.4142725	844.8265623	1138.663136		
846.8792918	0.426560581	0.012196266	0.070320371		SCFD1
14	30622112	30735812	+	6571	
protein_coding	sec1 family domain containing 1				
[Source:HGNC Symbol;Acc:HGNC:20726]		-	1064	1277	1040
861	8.855332516	8.568274827	7.218898661		
5.459761284	6.897003873	6.116707599			
ENSG00000048828	3800.619105	3250.817651	3958.127989		
2936.382143	2978.26934	2842.58136	3669.854915		
2919.077614	0.330066059	0.012201222	0.070320371		
FAM120A 9	93451722	93566107	+	7204	
protein_coding	family with sequence similarity 120A				
[Source:HGNC Symbol;Acc:HGNC:13247]		-	3285	3507	3259
2897	24.93769922	21.46327647	26.02970556		
19.61807216	19.71375042	18.77244441			
ENSG00000147044	565.7542594	483.8684955	420.4533189		
274.2498546	376.5102695	345.3878629	490.025358		
332.049329	0.560160295	0.01220383	0.070320371		CASK
X	41514934	41923645	-	19939	
protein_coding	calcium/calmodulin dependent serine protein kinase				
[Source:HGNC Symbol;Acc:HGNC:1497]		-	489	522	430
273	412	352	1.341220548	1.154253201	
0.999004715	0.662003812	0.900435151	0.824110269		
ENSG00000150712	829.5415215	883.3844372	849.7068236		
1358.189756	1084.751674	1001.821045	854.2109275		
1148.254159	-0.42643163	0.012213279	0.070348304		MTMR12
5	32226994	32313009	-	5545	
protein_coding	myotubularin related protein 12				
[Source:HGNC Symbol;Acc:HGNC:18191]		-	717	953	1187
1021	7.071512574	7.577488887	7.259733557		
11.78898344	9.328413015	8.595481847			
ENSG00000185386	209.4100633	186.3171793	199.4708769		
223.0163653	324.4202565	420.9414579	198.3993732		
322.7926932	-0.70294777	0.012226866	0.070400035		MAPK11
22	50263713	50270767	-	2688	
protein_coding	mitogen-activated protein kinase 11				
[Source:HGNC Symbol;Acc:HGNC:6873]		-	181	201	355
429	3.682510749	3.296861865	3.515631595		
3.993235529	5.755163769	7.450305196			
ENSG00000241749	223.2936034	350.3875312	133.958383		
351.6023777	388.3904479	474.9083114	235.8798392		
404.9670457	-0.778766438	0.012252016	0.070518284		
RPSAP52 12	65758020	65826997	-	2035	
transcribed_processed_pseudogene					ribosomal protein SA

pseudogene 52 [Source:HGNC Symbol;Acc:HGNC:35752]	-	193
378 137 350 425 484 5.186657951		
8.189574618 3.118592351 8.315815539 9.100874263		
11.10265855		
ENSG00000136826 138.8354011 190.0249839 167.2035292		
283.2910586 242.1728675 262.9657592 165.354638		
262.8098951 -0.666187285 0.012265322 0.070568301 KLF4		
9 107484852 107490482 - 3659		
protein_coding Kruppel like factor 4 [Source:HGNC		
Symbol;Acc:HGNC:6348] zf-C2H2 120 205 171 282 265		
268 1.793550252 2.470161847 2.164891607		
3.72638665 3.156036827 3.419152098		
ENSG00000196663 638.642845 752.6843264 772.4607488		
1116.086405 838.9233675 996.9149678 721.26264		
983.9749133 -0.447165926 0.012278419 0.07060602 TECPR2		
14 102362963 102502481 + 9384		
protein_coding tectonin beta-propeller repeat containing 2		
[Source:HGNC Symbol;Acc:HGNC:19957] - 552 812 790		
1111 918 1016 3.216960967 3.815065407		
3.899792933 5.724364455 4.26297985 5.054192101		
ENSG00000078487 41.65062033 35.22414335 36.1785414		
86.39372709 71.28107044 90.27182779 37.68443503		
82.64887511 -1.134400484 0.012284714 0.07060602 ZCWPW1		
7 100400826 100428992 - 3318		
protein_coding zinc finger CW-type and PWWP domain containing 1		
[Source:HGNC Symbol;Acc:HGNC:23486] - 36 38 37		
86 78 92 0.593363506 0.504941624		
0.516568356 1.253208368 1.024417099 1.294367147		
ENSG00000196810 550.7137576 606.2260461 650.2359467		
756.4474012 785.0056347 913.5116486 602.3919168		
818.3215615 -0.441390323 0.012291931 0.07060602 CTBP1-		
DT 4 1249300 1288291 + 7820 antisense CTBP1		
divergent transcript [Source:HGNC Symbol;Acc:HGNC:28307] -		
476 654 665 753 859 931 3.328855261		
3.687270113 3.939284507 4.655747724 4.786796982		
5.557621472		
ENSG00000162929 395.6808931 359.6570426 417.5199237		
228.0392564 321.6786769 223.7171384 390.9526198		
257.8116906 0.599622948 0.012294179 0.07060602		
KIAA1841 2 61065871 61138034 + 7992		
protein_coding KIAA1841 [Source:HGNC Symbol;Acc:HGNC:29387]		
- 342 388 427 227 352 228		
2.340266649 2.140475239 2.474998019 1.373319537		
1.919312916 1.331758286		
ENSG00000196776 3655.998895 3209.10485 3083.976205		
2343.680992 2938.059506 2476.587971 3316.359983		
2586.10949 0.358478121 0.012299651 0.07060602 CD47		
3 108043094 108091862 - 8225		
protein_coding CD47 molecule [Source:HGNC Symbol;Acc:HGNC:1682]		
- 3160 3462 3154 2333 3215 2524		

21.01095965	18.55774124	17.76348764	13.71450221		
17.03349112	14.32515995				
ENSG00000114853	410.7213949	366.1457006	488.8992081		
632.8842799	487.0873147	729.043131	421.9221012		
616.3382418	-0.546473329	0.012304167	0.07060602	ZBTB47	
3	42653684	42665854	+ 3781		
protein_coding	zinc finger and BTB domain containing 47 [Source:HGNC				
Symbol;Acc:HGNC:26955]	ZBTB	355 395	500 630	533	
743	5.134715534	4.606004694	6.125841882		
8.056289955	6.142980397	9.173354401			
ENSG00000095303	25.45315687	25.0276808	29.33395248		
1.004578222	6.397019142	7.849724156	26.60493005		
5.08377384	2.383206212	0.012304209	0.07060602	PTGS1	
9	122370530	122395703	+ 5791		
protein_coding	prostaglandin-endoperoxide synthase 1 [Source:HGNC				
Symbol;Acc:HGNC:9604]	-	22 27	30 1	7	
8	0.207760905	0.205562626	0.239977291		
0.008349254	0.052674822	0.064488527			
ENSG00000186814	380.6403913	305.8938765	254.2275882		
460.0968257	526.3832894	414.0729492	313.5872853		
466.8510214	-0.575897715	0.01231102	0.070618597		
ZSCAN30 18	35251058	35290245	- 8271		
protein_coding	zinc finger and SCAN domain containing 30 [Source:HGNC				
Symbol;Acc:HGNC:33517]	zf-C2H2	329 330	260 458	576	
422	2.175367269	1.759097361	1.456189124		
2.677371732	3.03475098	2.381773539			
ENSG00000107902	175.8581747	172.4129122	198.4930785		
76.34794487	104.180026	129.5204486	182.2547218		
103.3494732	0.818157033	0.012331384	0.070708878	LHPP	
10	124461834	124617888	+ 4064		
protein_coding	phospholysine phosphohistidine inorganic pyrophosphate				
phosphatase [Source:HGNC	Symbol;Acc:HGNC:30042]	-	152	186	
203	76 114	132	2.045429906	2.017870089	
2.31390111	0.904192935	1.222389891	1.516234128		
ENSG00000079313	783.2630545	1147.565512	1423.674494		
1584.219856	1500.557919	1645.498426	1118.167687		
1576.758734	-0.494957579	0.012342766	0.070747604	REX01	
19	1815246 1848463	- 5561	protein_coding	RNA	
exonuclease 1 homolog [Source:HGNC	Symbol;Acc:HGNC:24616]	-			
677	1238 1456	1577	1642	1677	6.657796037
9.815257724	12.12860733	13.71134362	12.86704606		
14.07752163					
ENSG00000051180	3.470885027	6.488657986	13.68917783	0	
0	0	7.882906946	0	5.473829751	
0.012344394	1	RAD51 15	40694774	40732339	
+	3046	protein_coding	RAD51 recombinase [Source:HGNC		
Symbol;Acc:HGNC:9817]	-	3	7	14	0
0	0.053862446	0.101321614	0.212912222	0	
0	0				
ENSG00000105835	6799.463768	7582.460332	4054.930032		

7541.368713	10952.61063	7741.790449	6145.618044	
8745.256597	-0.508998872	0.0123823	0.07094761	NAMPT
7	106248285	106286326	- 9049	
protein_coding	nicotinamide	phosphoribosyltransferase	[Source:HGNC	
Symbol;Acc:HGNC:30092]	-	5877 8180	4147 7507	11985
7890	35.51810733	39.85535423	21.22931118	
40.11132831	57.7159765	40.70262801		
ENSG00000149761	322.7923075	486.6493489	501.6105875	
595.7148857	556.5406653	809.5028036	437.0174147	
653.9194515	-0.579799439	0.012388593	0.070957069	NUDT22
11	64225941	64230686	+ 3721	
protein_coding	nudix hydrolase	22	[Source:HGNC Symbol;Acc:HGNC:28189]	
-	279 525	513 593	609 825	
4.100522941	6.22061884	6.38645933	7.705418652	
7.132080236	10.34999916			
ENSG00000119559	536.8302175	661.8431146	847.7512268	
951.3355763	867.2530237	1070.506132	682.1415196	
963.0315772	-0.496502524	0.012413008	0.071070281	
C19orf25	19 1461143	1479556 -	5111	protein_coding
	chromosome 19 open reading frame 25 [Source:HGNC			
Symbol;Acc:HGNC:26711]	-	464 714	867 947	949
1091	4.964857778	6.159228111	7.858066003	
8.95870662	8.091311653	9.964715539		
ENSG00000275966	0 5.561706845	23.46716199	0 0	
0	9.676289611	0 5.770040158	0.012427221	
1	AC110285.6	17 81345476	81345966	
-	491	lincRNA novel transcript		- 0
6	24 0	0 0	0	0.538770386
2.264290818	0	0 0		
ENSG00000064607	2563.827073	2224.682738	2546.187076	
2241.214013	1656.827958	1670.028814	2444.898962	
1856.023595	0.397587006	0.012433188	0.071159169	SUGP2
19	18990888	19034023	- 8468	
protein_coding	SURP and G-patch domain containing 2 [Source:HGNC			
Symbol;Acc:HGNC:18641]	-	2216 2400	2604 2231	1813
1702	14.3114494	12.49580819	14.24500436	
12.73854828	9.329869142	9.382633279		
ENSG00000185774	145.7771711	90.8412118	88.00185745	
213.9751613	256.7946256	131.4828796	108.2067468	
200.7508888	-0.895362056	0.012466079	0.071291007	KCNIP4
4	20728616	21948799	- 4256	
protein_coding	potassium voltage-gated channel interacting protein 4			
[Source:HGNC Symbol;Acc:HGNC:30083]	-		126 98	90
213	281 134	1.619062592	1.015215908	
0.979587751	2.419798486	2.87715526	1.469769446	
ENSG00000105426	826.0706365	907.4851669	1388.473751	
846.8594412	616.8554173	679.0011395	1040.676518	
714.238666	0.543721278	0.012473262	0.071291007	PTPRS
19	5158495 5340803	- 8565		
protein_coding	"protein tyrosine phosphatase, receptor type S			

[Source:HGNC Symbol;Acc:HGNC:9681]"	-	714	979	1420
843	675	692	4.558957643	5.039521269
7.680039132	4.758843511	3.434274485	3.771592496	
ENSG00000269973	127.2657843	160.3625474	126.1359957	
245.1170862	234.8619885	197.2243194	137.9214425	
225.7344647	-0.709518642	0.012475061	0.071291007	
AC010969.2	2	9936360	9939590	+
transcript	-	110	173	129
1.861874654	2.360712519	1.849503715	3.651355218	
3.46620914	2.904056993			
ENSG00000203724	127.2657843	131.627062	175.0259165	
88.40288354	77.67808958	70.6475174	144.6395876	
78.90949684	0.87509655	0.012476257	0.071291007	
C1orf53 1	197902647	197907367	+	611
protein_coding	chromosome 1 open reading frame	53	[Source:HGNC	
Symbol;Acc:HGNC:30003]	-	110	142	179
72	9.845690683	10.24663089	13.57107581	85
6.963742094	6.062284493	5.500945244		
ENSG00000188786	942.9237657	1033.550522	996.3765861	
1506.867333	1192.58714	1224.556968	990.9502913	
1308.003814	-0.400009299	0.01247954	0.071291007	MTF1
1	37809567	37859620	-	8024
protein_coding	metal regulatory transcription factor 1	[Source:HGNC		
Symbol;Acc:HGNC:7428]	zf-C2H2	815	1115	1019
1248	5.554710144	6.126577129	5.882822161	1305
9.038608081	7.087257128	7.26055302		
ENSG00000140688	741.6124341	858.3567564	785.1721282	
969.4179843	1039.97254	1151.94702	795.0471062	
1053.779182	-0.405979234	0.012489249	0.071319819	
C16orf58	16	31489471	31509309	-
protein_coding	chromosome 16 open reading frame	58		
[Source:HGNC Symbol;Acc:HGNC:25848]	-	641	926	803
965	1138	1174	9.657086406	11.24704207
10.24734543	12.85351488	13.6613694	15.09758585	
ENSG00000165526	1053.992087	1103.071858	1149.890937	
1522.940585	1293.111727	1463.973555	1102.318294	
1426.675289	-0.371735563	0.012499579	0.071352155	RPUSD4
11	126202094	126211692	-	4083
protein_coding	RNA pseudouridylate synthase domain containing	4		
[Source:HGNC Symbol;Acc:HGNC:25898]	-	911	1190	1176
1516	1415	1492	12.20207555	12.84995301
13.34229066	17.95233889	15.10204144	17.05828944	
ENSG00000161980	563.4403361	670.1856748	616.0130022	
371.6939421	453.2744992	489.6265442	616.5463377	
438.1983285	0.492953943	0.012506905	0.071367323	POLR3K
16	46407	53628	-	1889
polymerase III subunit K	[Source:HGNC Symbol;Acc:HGNC:14121]	-		
487	723	630	370	496
16.87486462	15.44937971	9.470458005	11.4421679	
12.33146355				

ENSG0000050820	2873.892802	4659.783385	4612.275129			
5289.104339	5983.040617	5164.137279	4048.650439			
5478.760745	-0.436115301	0.012530355	0.071474455	BCAR1		
16	75228187	75268053	-	9178		
protein_coding	"BCAR1, Cas family scaffold protein [Source:HGNC					
Symbol;Acc:HGNC:971]"	-	2484	5027	4717	5265	6547
5263	14.80124512	24.14875747	23.80785554			
27.7364924	31.08514413	26.76895098				
ENSG00000198857	155.0328645	234.5186386	151.5587545			
299.3643102	278.7272626	289.4585782	180.3700859			
289.1833837	-0.678947033	0.01255028	0.071561406			
HSD3BP5 1	119601340	119609250	+	1132		
transcribed_unprocessed_pseudogene	"hydroxy-delta-5-steroid					
dehydrogenase, 3 beta, pseudogene 5 [Source:HGNC						
Symbol;Acc:HGNC:5223]"	-	134	253	155	298	305
295	6.473707669	9.853897769	6.342897993			
12.72831907	11.74118714	12.16526643				
ENSG00000148498	1242.57684	1162.396731	1142.06855			
868.960162	866.3391638	985.1403815	1182.347373			
906.8132358	0.38259963	0.012564746	0.071617177	PARD3		
10	34109560	34815325	-	6513		
protein_coding	par-3 family cell polarity regulator [Source:HGNC					
Symbol;Acc:HGNC:16051]"	-	1074	1254	1168	865	948
1004	9.018159577	8.488880428	8.30738275			
6.421496435	6.342870679	7.196124533				
ENSG00000189067	5.784808379	0	23.46716199	0	0	
0	9.750656789	0	5.778761973	0.01257615		
1	LITAF 16	11547722	11636381	-		
5060	protein_coding	lipopolysaccharide induced TNF factor				
[Source:HGNC Symbol;Acc:HGNC:16841]"		zf-LITAF-like	5	0		
24	0	0	0	0.054039858	0	
0.219716757	0	0	0			
ENSG00000280070	8.09873173	9.269511408	11.73358099	0		
0.913859877	0	9.700608044	0.304619959			
4.80996999	0.012577324	1	AL049833.3	14		
96992864	96996601	+	3738	TEC	TEC	-
7	10	12	0	1	0	0.102412615
0.117949108	0.148711449	0	0.011657872	0		
ENSG00000141503	1433.475516	2567.65466	2138.445136			
2564.688201	2797.325085	3178.157068	2046.525104			
2846.723451	-0.475538266	0.012588829	0.071722691	MINK1		
17	4833388	4898061	+	7817	protein_coding	
misshapen like kinase 1 [Source:HGNC Symbol;Acc:HGNC:17565]"						-
1239	2770	2187	2553	3061	3239	8.668139803
15.62333032	12.96018279	15.79108311	17.06403823			
19.34269001						
ENSG00000115317	327.4201542	440.3017919	356.8964219			
478.1792337	547.4020666	593.6353893	374.8727893			
539.7388965	-0.52471616	0.012592641	0.071722691	HTRA2		
2	74529377	74533348	+	3001		

protein_coding	HtrA serine peptidase 2 [Source:HGNC						
Symbol;Acc:HGNC:14348]	-	283	475	365	476	599	
605	5.157213999	6.978491794	5.634161931				
7.669060675	8.698000428	9.410992235					
ENSG00000112276	362.1290045	294.7704628	261.0721771				
209.9568484	207.4461922	171.7127159	305.9905481				
196.3719188	0.638615562	0.012613603	0.071815327			BVES	
6	105096822	105137174	-	5808			
protein_coding	blood vessel epicardial substance [Source:HGNC						
Symbol;Acc:HGNC:1152]	-	313	318	267	209	227	
175	2.947219233	2.413984461	2.129546411				
1.739886406	1.703169406	1.406557455					
ENSG00000123427	423.4479733	337.4102153	331.4736631				
216.988896	261.3639249	249.2287419	364.1106172				
242.5271876	0.584740382	0.012633606	0.071902436				
EEF1AKMT3	12	57771492	57782541	+	3172		
protein_coding	EEF1A lysine methyltransferase 3 [Source:HGNC						
Symbol;Acc:HGNC:24936]	-	366	364	339	216	286	
254	6.310192665	5.059436657	4.950726964				
3.292469716	3.929085253	3.738062632					
ENSG00000125485	857.3086017	875.9688281	864.3737999				
1237.64037	1159.688184	1013.595632	865.8837432				
1136.974729	-0.392865355	0.012640034	0.071905266			DDX31	
9	132592997	132670401	-	5546			
protein_coding	DEAD-box helicase 31 [Source:HGNC						
Symbol;Acc:HGNC:16715]	-	741	945	884	1232	1269	
1033	7.306898178	7.512524498	7.383713815				
10.74068696	9.971037615	8.694938051					
ENSG00000163655	4898.575735	5042.614206	4667.03184				
3579.312205	4138.871385	4060.26982	4869.407261				
3926.151136	0.310574422	0.012643511	0.071905266			GMPS	
3	155870536	155944026	+	8885			
protein_coding	guanine monophosphate synthase [Source:HGNC						
Symbol;Acc:HGNC:4378]	-	4234	5440	4773	3563	4529	
4138	26.06082346	26.99450856	24.88493198				
19.38918733	22.2128092	21.74097867					
ENSG00000174365	166.6024813	190.0249839	259.1165803				
366.671051	337.2142948	272.7779144	205.2480152				
325.5544201	-0.664187502	0.012703703	0.072220716			SNHG11	
20	38446578	38450921	+	2813			
processed_transcript	small nucleolar RNA host gene 11 [Source:HGNC						
Symbol;Acc:HGNC:25046]	-	144	205	265	365	369	
278	2.799545128	3.213054461	4.363938259				
6.273708686	5.716302877	4.613399876					
ENSG00000006194	693.0200438	910.2660203	850.6846221				
1216.544227	1215.433637	929.2110969	817.9902287				
1120.39632	-0.453114099	0.012715799	0.072262608			ZNF263	
16	3263800	3301401	+	6945			
protein_coding	zinc						
finger protein 263 [Source:HGNC	Symbol;Acc:HGNC:13056]	zf-C2H2	599				
982	870	1211	1330	947	4.716819802		

6.234091836	5.802958415	8.430883916	8.345223813		
6.365371639					
ENSG00000258857	0	0	1.955596832	9.041203998	
17.36333767	11.77458623	0.651865611			
12.72637597	-4.258729205	0.012737417	1	AL359397.1	
14	50397013	50398345	+	501	
lincRNA novel transcript		-	0	0	2
19	12	0	0	0.184924616	0.86857235
1.652625588	1.118122935				
ENSG00000126458	450.0580919	706.3367693	517.2553621		
681.1040345	892.8411002	837.9580536	557.8834078		
803.9677295	-0.526106122	0.012744164	0.072396892	RRAS	
19	49635292	49640201	-	1160	
protein_coding	RAS related [Source:HGNC Symbol;Acc:HGNC:10447] -				
389	762	529	678	977	854
28.96215944	21.1251664	28.26004969	36.70245985		
34.36733983					
ENSG00000118939	74.04554725	100.1107232	132.9805846		
23.10529911	60.31475191	50.04199149	102.3789517		
44.4873475	1.201658198	0.012759472	0.072456927	UCHL3	
13	75549480	75606020	+	1905	
protein_coding	ubiquitin C-terminal hydrolase L3 [Source:HGNC				
Symbol;Acc:HGNC:12515]	-	64	108	136	23
51	1.837298442	2.499555208	3.307092818	66	
0.58375965	1.509758743	1.249744494			
ENSG00000134668	588.8934929	1043.746985	539.7447257		
936.2669029	1571.838989	903.6994934	724.1284011		
1137.268462	-0.650764427	0.012772477	0.072503846	SPOCD1	
1	31790422	31816051	-	7085	
protein_coding	SPOC domain containing 1 [Source:HGNC				
Symbol;Acc:HGNC:26338]	-	509	1126	552	932
921	3.928915066	7.007006073	3.609122965	1720	
6.360295218	10.57906267	6.068282792			
ENSG00000158042	1384.883126	1563.766575	1282.871522		
1725.865385	1713.48727	2078.21447	1410.507074		
1839.189042	-0.382631794	0.012782742	0.072535182	MRPL17	
11	6680782	6683401	-	2276	protein_coding
mitochondrial ribosomal protein L17 [Source:HGNC					
Symbol;Acc:HGNC:14053]	-	1197	1687	1312	1718
2118	28.76183599	32.67960382	26.70324455	1875	
36.49657567	35.89943488	43.44099198			
ENSG00000207750	15.04050178	3.707804563	4.888992081	0	
0	0	7.879099476	0	5.466368529	
0.012797374	1	MIR553	1	100281241	100281308
+	68	miRNA	microRNA 553 [Source:HGNC		
Symbol;Acc:HGNC:32809]	-	13	4	5	0
0	10.45512314	2.59349274	3.406148258	0	
0	0				
ENSG00000167977	817.9719047	1345.006105	1105.890009		
1643.489971	1509.696517	1373.701727	1089.622673		

1508.962739	-0.468733946	0.012802134	0.072618265	KCTD5
16	2682475	2709030 +	3420	protein_coding
potassium channel tetramerization domain containing 5 [Source:HGNC				
Symbol;Acc:HGNC:21423]	-	707	1451	1131 1636 1652
1400	11.30545434	18.70575597	15.31930118	
23.12908274	21.04953637	19.10944023		
ENSG00000182118	325.1062309	383.7577723	351.0296314	
414.8908057	621.4247166	514.1569322	353.2978782	
516.8241515	-0.548567592	0.012816944	0.072675304	FAM89A
1	231018958	231040246	-	2394
protein_coding family with sequence similarity 89 member A				
[Source:HGNC Symbol;Acc:HGNC:25057]	-	281	414	359
413	680	524	6.419140575	7.624478656
6.946607459	8.341172871	12.37779724	10.21770069	
ENSG00000103326	1877.7488	2727.090256	3576.786606	
4227.265158	3098.898844	4293.799113	2727.208554	
3873.321039	-0.505752265	0.012896944	0.073101811	CAPN15
16	527717	554636 +	7987	protein_coding
calpain 15 [Source:HGNC Symbol;Acc:HGNC:11182] Others 1623 2942				
3658	4208	3391	4376	11.11295481 16.24025866
21.21594948	25.47377234	18.5013195	25.57641468	
ENSG00000225200	27.76708022	45.4206059	32.26734773	
75.34336665	83.16124884	80.4596726	35.15167795	
79.6547627	-1.176140735	0.01290754	0.073134751	
AC246787.1	14	105978520	105979146	- 627
processed_pseudogene ribosomal protein S8 (RPS8) pseudogene				
-	24	49	33 75	91 82
2.093333452	3.445581264	2.438085069	5.78355592	
6.324591051	6.105093891			
ENSG00000099326	592.364378	786.0545674	656.1027372	
1063.848337	733.8294816	1081.299502	678.1738942	
959.659107	-0.499807016	0.012922614	0.073193035	MZF1
19	58561931	58573575	-	6691
protein_coding myeloid zinc finger 1 [Source:HGNC				
Symbol;Acc:HGNC:13108]	zf-C2H2	512	848	671 1059 803
1102	4.184789755	5.587773328	4.645515849	
7.652549487	5.229776306	7.688411161		
ENSG00000231628	6.941770054	16.68512054	5.866790497	0
0.913859877	0	9.831227029	0.304619959	
4.830909756	0.01295479	1	AL133406.2	6
105279016	105281755	+	1198	antisense novel
transcript	-	6	18	6 0 1 0
0.273898179	0.662444723	0.232004756	0	
0.036374898	0			
ENSG00000081692	126.1088227	210.417909	159.3811418	
205.9385355	277.8134027	357.1624491	165.3026245	
280.3047958	-0.759659463	0.012955779	0.073353699	JMJD4
1	227730425	227735411	-	4315
protein_coding jumonji domain containing 4 [Source:HGNC				
Symbol;Acc:HGNC:25724]	-	109	227	163 205 304

364	1.381466668	2.319417957	1.749884	
2.297070252	3.070091939	3.937917555		
ENSG00000142227	4347.861977	5761.928292	5571.495375	
5985.277047	6479.266531	7992.000406	5227.095215	
6818.847995	-0.383327641	0.012980547	0.073466723	EMP3
19	48321509	48330553	+ 1667	
protein_coding	epithelial membrane protein 3 [Source:HGNC			
Symbol;Acc:HGNC:3335]	-	3758 6216	5698 5958	7090
8145	123.2866037	164.4028583	158.3395115	
172.8089039	185.3400318	228.0875208		
ENSG00000183647	455.8429002	373.5613098	428.2757063	
215.9843177	268.674804	344.4066473	419.2266388	
276.3552563	0.600492026	0.01301055	0.073609281	ZNF530
19	57599885	57612722	+ 5019	
protein_coding	zinc finger protein 530 [Source:HGNC			
Symbol;Acc:HGNC:29297]	zf-C2H2	394 403	438 215	294
351	4.293127028	3.540151178	4.042586959	
2.071202114	2.552635075	3.264644955		
ENSG00000139178	185.1138681	152.0199871	146.6697624	
223.0163653	324.4202565	235.4917247	161.2678725	
260.9761155	-0.696618802	0.013028409	0.073683053	C1RL
12	7089587 7109273	- 5014	protein_coding	
complement C1r	subcomponent like [Source:HGNC Symbol;Acc:HGNC:21265]			
-	160 164	150 222	355 240	
1.745140373	1.442093689	1.385828171	2.140769267	
3.085337098	2.234461869			
ENSG00000253626	463.941632	359.6570426	355.9186235	
200.9156444	327.1618361	227.6420005	393.1724327	
251.9064937	0.640353186	0.013045171	0.073750567	
EIF5AL1 10	79512601	79516440	+ 3840	
protein_coding	eukaryotic translation initiation factor 5A-like 1			
[Source:HGNC Symbol;Acc:HGNC:17419]	-	401 388	364	
200	358 232	5.710943466	4.454864092	
4.391092796	2.51825664	4.062659269	2.820348634	
ENSG00000152104	5762.826107	4096.197091	5807.144794	
3813.378931	3358.43505	4585.220122	5222.055997	
3919.011368	0.414047404	0.013102396	0.074046704	PTPN14
1	214348696	214552449	- 18756	
protein_coding	"protein tyrosine phosphatase, non-receptor type 14			
[Source:HGNC Symbol;Acc:HGNC:9647]"	-	4981 4419	5939	
3796	3675 4673	14.52349135	10.38766022	
14.66815724	9.785594069	8.538384678	11.63058589	
ENSG00000231058	0 0	0 24.10987733	5.483159264	
0	0 9.864345531	-5.720963891	0.013111817	
1	MSANTD2P1	21 23101223	23103074	
+	1368	processed_pseudogene	Myb/SANT DNA binding	
domain containing 2	pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:39637]			
-	0 0	0 24	6 0 0	
0	0 0.848254868	0.191127752	0	
ENSG00000170027	9875.824864	9515.153461	9355.575246	

12026.81047	12576.53963	10663.85027	9582.184524	
11755.73346	-0.294983599	0.013133462	0.074194841	YWHAG
7	76326794	76359031	- 3750	
protein_coding	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase			
activation protein gamma	[Source:HGNC Symbol;Acc:HGNC:12852]		-	
8536	10265	9568	11972	13762
120.6873202		118.1931629	154.3606707	124.4852373
135.2895954				159.9222471
ENSG00000217416	21.98227184	14.83121825	14.66697624	
1.004578222	3.65543951	1.962431039	17.16015544	
2.207482924	2.946407932	0.013149637	1	ISCA1P1 5
62776877	62777263	-	387	
processed_pseudogene	iron-sulfur cluster assembly 1 pseudogene 1			
[Source:HGNC Symbol;Acc:HGNC:33263]		-	19	16 15
1	4	2	2.684957086	1.822816603
1.795489004	0.124936764	0.450409585	0.241248747	
ENSG00000092607	12.72657843	19.46597396	10.75578258	0
0	2.943646558	14.31611166	0.981215519	
3.878087425	0.013157526	1	TBX15	1 118883046
118989556	-	4349	protein_coding	T-box 15
[Source:HGNC Symbol;Acc:HGNC:11594]		T-box	11	21 11
0	0	3	0.138324144	0.212894207
0.117167114	0	0	0.032201632	
ENSG00000100028	2857.695339	2857.790367	2900.150102	
2232.172809	2422.642535	2299.969178	2871.878603	
2318.261507	0.308888677	0.01317156	0.074382577	SNRPD3
22	24555503	24609980	+ 2544	
protein_coding	small nuclear ribonucleoprotein D3 polypeptide			
[Source:HGNC Symbol;Acc:HGNC:11160]		-	2470	3083 2966
2222	2651	2344	53.09755935	53.43063993
54.00780109	42.23068871	45.40997037	43.01169289	
ENSG00000087302	2031.624703	1754.71851	1936.040864	
1592.256482	1485.022301	1412.950348	1907.461359	
1496.743044	0.349594637	0.013184236	0.074426666	RTRAF
14	51989475	52010691	+ 8323	
protein_coding	"RNA transcription, translation and transport factor			
[Source:HGNC Symbol;Acc:HGNC:23169]"		-	1756	1893 1980
1585	1625	1440	11.53823366	10.02777723
11.02015623	9.207687862	8.508089865	8.076601091	
ENSG00000181577	60.16200714	114.9419415	74.31267963	
143.6546857	230.2926891	117.7458623	83.13887608	
163.8977457	-0.976572739	0.013208205	0.074534449	
C6orf223	6	44000580	44005958	+ 3917
protein_coding	chromosome 6 open reading frame 223			
[Source:HGNC Symbol;Acc:HGNC:28692]		-	52	124 76
143	252	120	0.726013146	1.395732115
0.898798785	1.765158395	2.803532319	1.430124051	
ENSG00000124160	1558.427377	1343.152203	1248.648577	
2002.124396	1641.29234	1767.169151	1383.409386	
1803.528629	-0.382942795	0.013263769	0.074816872	NCOA5

20	46060985	46089952	-	3220	
protein_coding	nuclear receptor coactivator 5	[Source:HGNC			
Symbol;Acc:HGNC:15909]	-	1347 1449	1277 1993	1796	
1801	22.87738794	19.84021946	18.37119815		
29.92627369	24.30575178	26.10981995			
ENSG00000149658	2146.163908	2449.931865	2416.139886		
2968.528646	2905.16055	2873.980257	2337.411887		
2915.889818	-0.318722196	0.013268041	0.074816872	YTHDF1	
20	63195429	63216234	-	3301	
protein_coding	YTH N6-methyladenosine RNA binding protein 1	[Source:HGNC			
Symbol;Acc:HGNC:15867]	-	1855 2643	2471		
2955	3179 2929	30.73216119	35.30088528		
34.6760545	43.28258368	41.9665822	41.42093358		
ENSG00000214826	273.0429555	404.1506974	503.5661843		
326.4879222	206.5323323	173.6751469	393.5866124		
235.5651338	0.742163462	0.013278511	0.074847029	DDX12P	
12	9418673 9448229	-	2947	unprocessed_pseudogene	
"DEAD/H-box helicase 12, pseudogene	[Source:HGNC				
Symbol;Acc:HGNC:2737]"	-	236 436	515 325	226	
177	4.379520664	6.522893854	8.095236648		
5.33217558	3.341849604	2.803749224			
ENSG00000188933	204.7822166	176.1207168	211.2044579		
139.6363729	106.0077458	107.9337071	197.3691304		
117.8592753	0.744042447	0.013286637	0.074847029		
USP32P1 17	16786489	16804455	+	9299	
transcribed_unprocessed_pseudogene	ubiquitin specific peptidase				
32 pseudogene 1	[Source:HGNC				
Symbol;Acc:HGNC:43570]	-	177			
190	216 139	116 110	1.040954463		
0.90084757	1.076019048	0.722736135	0.543601116		
0.552207719					
ENSG00000245556	69.41770054	110.3071858	102.6688337		
144.659264	182.7719755	177.600009	94.13124		
168.3437495	-0.835659217	0.013288077	0.074847029		
SCAMP1-AS1	5	78342365	78360507	-	1792
lincRNA	SCAMP1 antisense RNA 1	[Source:HGNC			
Symbol;Acc:HGNC:50544]	-	60 119	105 144	200	
181	1.831082693	2.927810163	2.714274393		
3.885310245	4.863518678	4.715053288			
ENSG00000241157	15.04050178	5.561706845	2.933395248	0	
0	0	7.845201293	0	5.460443684	
0.013307204	1	AC104763.1	17	60245288	
60245647	-	360	processed_pseudogene	ribosomal	
protein L32 (RPL32)	pseudogene	-	13	6	3 0
0	0	1.974856593	0.734822943	0.386030136	
0	0	0			
ENSG00000166411	858.4655634	775.8581049	817.4394759		
629.8705452	562.9376845	642.6961653	817.2543814		
611.8347983	0.417539192	0.013312017	0.074933961	IDH3A	
15	78131498	78171949	+	6832	
protein_coding	isocitrate dehydrogenase 3 (NAD(+)) alpha	[Source:HGNC			

Symbol;Acc:HGNC:5384]	-	742	837	836	627	616	
655	5.939511949	5.4014649		5.668405041			
4.437321537	3.929085253	4.475478531					
ENSG00000229848	2.313923351	18.53902282		12.71137941			
27.12361199	53.91773277	49.06077597		11.18810853			
43.36737358	-1.93989382	0.013315731		0.074933961			
AC139149.1	17	81514047	81527776	+		957	
antisense		"novel transcript, antisense to ACTG1"			-		
2	20	13	27	59	50	0.114291194	
0.921408079		0.629265425		1.364121465		2.68657316	
2.438956769							
ENSG00000110719	693.0200438	1241.187578		1374.784573			
678.0902999	497.1397733	944.9105452		1102.997398			
706.7135395	0.643152205	0.01331993		0.074933961		TCIRG1	
11	68039016	68050895		+	4384		
protein_coding	"T cell immune regulator 1, ATPase H+ transporting V0 subunit a3 [Source:HGNC Symbol;Acc:HGNC:11647]"					-	
1406	675	544	963	7.472243048		1339	
14.85652476		7.444481309		5.407380767		10.25419985	
ENSG0000040633	1372.156547	1394.134516		1751.236963			
1914.726091	1901.742405	2035.040987		1505.842676			
1950.503161	-0.373022601	0.013327869		0.074933961		PHF23	
17	7235028	7239722	-	2783	protein_coding	PHD	
finger protein 23 [Source:HGNC Symbol;Acc:HGNC:28428]				-		1186	
1504	1791	1906	2081	2074	23.305917		
23.82695737	29.8115691		33.11394373		32.58498096		
34.78897087							
ENSG00000265972	2788.277638	3882.071378		1770.792932			
4885.263894	6049.752388	4307.53613		2813.713983			
5080.850804	-0.852568427	0.01332802		0.074933961		TXNIP	
1	145992435	145996600		-	3625		
protein_coding	thioredoxin interacting protein [Source:HGNC Symbol;Acc:HGNC:16952]					-	
4390	36.3583147	50.93691286		23.14263976		6620	
64.86306626	79.58085051	56.53306674					
ENSG00000106479	165.4455196	188.1710816		185.7816991			
332.5153915	211.1016317	320.8574749		179.7994334			
288.158166	-0.67899306	0.013338222		0.07496375		ZNF862	
7	149838367	149867479		+	8430		
protein_coding	zinc finger protein 862 [Source:HGNC Symbol;Acc:HGNC:34519]					-	
327	0.927690642	1.061701476		1.044067272		231	
1.898460807	1.194106337	1.810782188					
ENSG0000022840	2030.467741	2661.276725		2383.872539			
3097.114658	3081.535507	2862.20567		2358.539002			
3013.618612	-0.353178857	0.013360353		0.075060534		RNF10	
12	120533480	120577594		+	5911		
protein_coding	ring finger protein 10 [Source:HGNC Symbol;Acc:HGNC:10055]					-	
2917	16.23719006	21.41441383		19.10623863		3372	

25.21818242	24.85908872	23.03676572					
ENSG0000049249	136.5214777	41.71280134	161.3367387				
61.27927154	47.52071363	27.47403455	113.1903392				
45.42467324	1.315967621	0.013386721	0.075181046				
TNFRSF9 1	7915894 7943165	- 6331	protein_coding	TNF			
receptor superfamily member 9	[Source:HGNC Symbol;Acc:HGNC:11924]						
-	118 45	165 61	52 28				
1.019305591	0.31338208	1.207296903	0.465863557				
0.357923017	0.206458018						
ENSG00000173546	885.0756819	641.4501895	1605.544999				
664.0262048	633.304895	704.512743	1044.023624				
667.2812809	0.645906689	0.013407166	0.075268216	CSPG4			
15	75674322	75712848	- 8290				
protein_coding	chondroitin sulfate proteoglycan 4 [Source:HGNC						
Symbol;Acc:HGNC:2466]	-	765 692	1642 661	693			
718	5.04663177	3.680319492	9.175317007				
3.855210938	3.642816557	4.043113652					
ENSG00000278902	13.88354011	28.73548537	10.75578258				
80.36625776	47.52071363	36.30497422	17.79160268				
54.73064854	-1.614738023	0.013415768	0.075277666				
AC010947.1	18 73921939	73922631	-	693			
TEC	TEC -	12 31	11 80	52			
37	0.946984181	1.972252055	0.735295497				
5.581590475	3.269856598	2.492381536					
ENSG00000164342	39.33669697	52.83621503	32.26734773	0			
17.36333767	8.830939675	41.48008658	8.731425782				
2.24085344	0.013418698	0.075277666	TLR3 4				
186069152	186088069	+	6724	protein_coding			
toll like receptor 3	[Source:HGNC Symbol;Acc:HGNC:11849]						
-	34 57	33 0	19 9				
0.276532338	0.37374992	0.227346719	0	0.123135845			
0.062482851							
ENSG00000213999	0 1.853902282	8.800185745	40.18312888				
22.84649694	12.75580175	3.551362676	25.26180919				
-2.81120179	0.013426113	0.075285775	MEF2B 19				
19145568	19170289	- 1848	protein_coding				
myocyte enhancer factor 2B	[Source:HGNC Symbol;Acc:HGNC:6995]						
SRF	0 2 9	40 25	13 0				
0.047715776	0.225602027	1.046548214	0.589517416				
0.328388108							
ENSG00000105556	684.921312	760.0999355	710.8594485				
1020.651474	954.069712	876.2254589	718.6268987				
950.3155482	-0.402733407	0.013429993	0.075285775	MIER2			
19	301444 344815	- 7939	protein_coding	MIER			
family member 2	[Source:HGNC Symbol;Acc:HGNC:29210]						
820	727 1016	1044 893	4.078031889	592			
4.553884468	4.242003912	6.18769819	5.73051026				
5.250875157							
ENSG00000205730	1598.921036	1655.534738	1823.594046				
2366.786291	1867.929589	2328.424428	1692.683273				

2187.713436	-0.369797054	0.013449138	0.075365457		
ITPRIPL2	16	19113932	19121629	+	7440
protein_coding	ITPRIP like 2 [Source:HGNC				
Symbol;Acc:HGNC:27257]	-	1382	1786	1865	2356
2373	10.1585055	10.58382078	11.61203554		2044
15.31100037	11.97199574	14.889182			
ENSG00000183826	607.4048798	768.4424958	876.1073809		
985.4912358	944.9311132	1171.57133	750.6515855		
1033.997893	-0.46103937	0.013512976	0.075695441		BTBD9
6	38168451	38640148	-	9537	
protein_coding	BTB domain containing 9 [Source:HGNC				
Symbol;Acc:HGNC:21228]	-	525	829	896	981
1194	3.010524969	3.832451839	4.352098167		1034
4.973457845	4.724625111	5.844381805			
ENSG00000101911	1101.427515	1167.031486	957.2646494		
871.9738967	830.6986286	720.2121913	1075.241217		
807.6282389	0.412895319	0.013550596	0.075878377		PRPS2
X	12791355	12824222	+	2758	
protein_coding	phosphoribosyl pyrophosphate synthetase 2 [Source:HGNC				
Symbol;Acc:HGNC:9465]	-	952	1259	979	868
734	18.87719227	20.12636879	16.44337214		909
15.21691728	14.36243973	12.42361069			
ENSG00000204709	0	0	0.977798416	26.11903377	
10.96631853	0	0.325932805	12.3617841	-5.085226334	
0.013559329	1	LINC01556	6	28943877	
28944537	+	466	lincRNA long intergenic non-		
protein_coding	RNA 1556 [Source:HGNC Symbol;Acc:HGNC:21195]				
0	0	1	26	12	0
0.099406902	2.697668916	1.122157786	0		0
ENSG00000144559	467.412517	449.5713033	445.8760778		
815.7175163	560.1961049	569.1050013	454.2866327		
648.3395408	-0.512971017	0.013563066	0.075881518		TAMM41
3	11790442	11846919	-	5925	
protein_coding	TAM41 mitochondrial translocator assembly and				
maintenance homolog	[Source:HGNC Symbol;Acc:HGNC:25187]				
485	456	812	613	580	3.728959986
3.609003821	3.565159331	6.626266384	4.508485919		
4.569678799					
ENSG00000137522	653.6833468	970.5178445	812.5504838		
1030.697256	1105.770452	1196.101718	812.2505584		
1110.856475	-0.450606593	0.01356449	0.075881518		RNF121
11	71928701	71997597	+	3567	
protein_coding	ring finger protein 121 [Source:HGNC				
Symbol;Acc:HGNC:21070]	-	565	1047	831	1026
1219	8.662436244	12.94128884	10.79196108		1210
13.9073847	14.78226075	15.95315674			
ENSG00000163466	5715.390678	5011.097867	5119.752507		
3940.960365	4770.34856	3855.195776	5282.080351		
4188.8349	0.334344747	0.013568336	0.075881518		ARPC2
2	218217094	218254356	+	6562	

protein_coding	actin related protein 2/3 complex subunit 2						
	[Source:HGNC Symbol;Acc:HGNC:705]				-	4940	5406
	3923	5220	3929	41.1704331	36.32233615		5236
36.96288556		28.90568719		34.66513331	27.95064528		
ENSG00000100601	414.1922799			352.2414335	283.5615407		
498.2707981	551.0575061			471.9646649	349.998418		
507.0976564	-0.53637816			0.013571013	0.075881518		ALKBH1
	14	77672404		77708020	-	2844	
protein_coding	"alkB homolog 1, histone H2A dioxygenase [Source:HGNC						
	Symbol;Acc:HGNC:17911]"				-	358	380
	481	6.884115486		5.890985619	4.723575503		603
8.4324408	9.239454217			7.895170626			
ENSG00000230910	12.72657843			14.83121825	20.53376674		0
	0	3.924862078		16.03052114	1.308287359		
3.624777966	0.013632577			1	AL391807.1	6	
68628117	68635161			-	5924		processed_transcript
	uncharacterized LOC101928307 [Source:NCBI gene;Acc:101928307]						
	-	11	16	21	0	0	4
0.101548228	0.119080018			0.164212684	0	0	
0.031520346							
ENSG00000189043	3114.540831			3249.8907	2912.861482		
2056.37162	2824.740881			2297.025531	3092.431004		
2392.712678	0.369915653			0.013644575	0.076263229		NDUFA4
	7	10931951		10940256	-	3556	
protein_coding	"NDUFA4, mitochondrial complex associated [Source:HGNC						
	Symbol;Acc:HGNC:7687]"				-	2692	3506
	2341	41.40073163		43.46944721	38.80710152		3091
27.83282615	37.87876846			30.73163718			
ENSG00000198604	1752.796939			1924.350568	1866.617176		
1356.1806	1656.827958			1235.350339	1847.921561		
1416.119632	0.38388813			0.013649257	0.076263229		BAZ1A
	14	34752731		34875647	-	7698	
protein_coding	bromodomain adjacent to zinc finger domain 1A						
	[Source:HGNC Symbol;Acc:HGNC:960]				-	1515	2076
	1350	1813	1259	10.76290331	11.89004232		1909
11.48763101	8.479242935			10.26309845	7.634733098		
ENSG00000127564	424.604935			845.3794405	1019.843748		
339.547439	523.6417098			550.4619064	763.2760412		
471.2170184	0.69649996			0.01366078	0.076299723		PKMYT1
	16	2968024	2980539	-	5034		
protein_coding	"protein kinase, membrane associated tyrosine/						
	threonine 1 [Source:HGNC Symbol;Acc:HGNC:29650]"				-		367
	912	1043	338	573	561	3.987012211	
7.987586698	9.597841044			3.246420002	4.960209371		
5.202303509							
ENSG00000197562	575.0099528			641.4501895	863.3960015		
931.2440118	976.916209			964.5348556	693.2853813		
957.5650255	-0.465249282			0.013669747	0.07632192		RAB40C
	16	589357	629272	+	4180		
protein_coding	"RAB40C, member RAS oncogene family [Source:HGNC						

Symbol;Acc:HGNC:18285]" -	497	692	883	927	1069
983 6.502417035	7.29900684		9.785586891		
10.72271268	11.14448544	10.97800115			
ENSG00000104356	779.7921694	946.4171148	971.9316257		
643.9346403	663.462271	706.475174	899.3803033		
671.2906951	0.422658413	0.013690316	0.07640886		POP1
8 98117297		98159834	+ 4852		
protein_coding "POP1 homolog, ribonuclease P/MRP subunit [Source:HGNC					
Symbol;Acc:HGNC:30129]" -	674	1021	994	641	726
720 7.596854649	9.277669721		9.49004011		
6.387610907	6.520402815	6.927200214			
ENSG00000115211	842.2680999	751.7573752	657.0805357		
1048.779664	954.069712	994.9525367	750.3686703		
999.2673042	-0.41384941	0.01370846	0.076475078		EIF2B4
2 27364352		27370486	- 5341		
protein_coding eukaryotic translation initiation factor 2B subunit					
delta [Source:HGNC Symbol;Acc:HGNC:3260]			- 728	811	
672 1044 1044 1014	7.454242449	6.69471717			
5.828397334 9.451029901	8.517978086	8.862605394			
ENSG00000133243	2634.401736	3270.283625	3348.959575		
3947.992413	3682.855306	4111.293027	3084.548312		
3914.046915	-0.343240841	0.013713881	0.076475078		BTBD2
19 1985438 2034881	- 5944	protein_coding			BTB
domain containing 2 [Source:HGNC Symbol;Acc:HGNC:15504]			-		2277
3528 3425 3930 4030 4190	20.94975472				
26.16879552	26.69219143	31.96796316	29.54505774		
32.90646709					
ENSG00000175806	585.4226079	641.4501895	840.9066379		
446.0327306	482.5180153	534.7624581	689.2598118		
487.771068	0.499355895	0.013717189	0.076475078		MSRA
8 10054268		10428891	+ 4162		
protein_coding methionine sulfoxide reductase A [Source:HGNC					
Symbol;Acc:HGNC:7377]" -	506	692	860	444	528
545 6.64879823	7.330573905	9.571914952			
5.15800918	5.528285258	6.112803879			
ENSG00000198796	263.7872621	184.463277	196.5374816		
124.5676995	60.31475191	158.9569142	214.9293402		
114.6131219	0.907409326	0.013723207	0.076480741		ALPK2
18 58481247		58628957	- 9431		
protein_coding alpha kinase 2 [Source:HGNC Symbol;Acc:HGNC:20565]					
- 228 199 201 124	66	162			
1.322122861	0.930313428	0.987280975	0.635718949		
0.304961341	0.801868781				
ENSG00000113648	3459.31541	3503.875312	3752.790321		
3073.004781	2707.766817	2857.299593	3571.993681		
2879.357064	0.31111859	0.013728815	0.076484108		H2AFY
5 135333900		135399914	- 17730		
protein_coding H2A histone family member Y [Source:HGNC					
Symbol;Acc:HGNC:4740]" -	2990	3780	3838	3059	2963
2912 9.222680538	9.399765565	10.027639			

8.342034044	7.282517109	7.667056627			
ENSG00000183955	778.6352078	926.0241897	1101.978815		
611.7881372	768.5561569	652.5083204	935.5460708		
677.6175382	0.46561815	0.013736307	0.076497969	KMT5A	
12	123383773	123409358	+ 4579		
protein_coding	lysine methyltransferase 5A	[Source:HGNC			
Symbol;Acc:HGNC:29489]	-	673 999	1127 609	841	
665	8.037835863	9.618975148	11.40133557		
6.430546242	8.003573729	6.779490205			
ENSG00000122390	590.0504546	813.8631017	787.127725		
1068.871228	933.9647947	980.2343039	730.3470938		
994.3567756	-0.443942754	0.013742758	0.076506022	NAA60	
16	3443611 3486963	+ 7397			
protein_coding	"N(alpha)-acetyltransferase 60,	NatF catalytic subunit			
[Source:HGNC	Symbol;Acc:HGNC:25875]"	-	510 878	805	
1064	1022 999	3.770589642	5.233266545		
5.041302032	6.954841321	6.020795479	6.304576304		
ENSG00000178297	46.27846703	62.10572644	87.02405904		
229.0438346	96.86914701	96.15912091	65.13608417		
140.6907008	-1.107732583	0.013759112	0.076569184		
TMPRSS9 19	2360238 2426239	+ 4328	protein_coding		
transmembrane	serine protease 9	[Source:HGNC	Symbol;Acc:HGNC:30079]		
-	40 67	89 228	106 98		
0.50543749	0.682529628	0.952588228	2.547116513		
1.067277149	1.057024027				
ENSG00000279968	21.98227184	12.05036483	19.55596832	0	
0.913859877	4.906077597	17.86286833	1.939979158		
3.203558006	0.01376074	1	GVQW2 6		
138725211	138773652	- 2993	protein_coding	GVQW	
motif containing 2	[Source:HGNC	Symbol;Acc:HGNC:51715]	-	19	
13	20 0	1 5	0.347169526		
0.1915008	0.309546384	0	0.014559682	0.077984685	
ENSG00000096433	2758.196635	2748.410133	3020.419308		
2304.502441	1476.797562	2480.512833	2842.342025		
2087.270945	0.445703703	0.013795411	0.076743251	ITPR3	
6	33620365	33696574	+ 9870		
protein_coding	"inositol 1,4,5-trisphosphate receptor type 3				
[Source:HGNC	Symbol;Acc:HGNC:6182]"	-	2384 2965	3089	
2294	1616 2528	13.20942189	13.24468101		
14.49783696	11.23770112	7.134816393	11.95655188		
ENSG00000119950	853.8377167	864.8454144	463.4764493		
964.3950931	1156.032745	1075.412209	727.3865268		
1065.280016	-0.550928071	0.013819032	0.076846687	MXI1	
10	110207605	110287365	+ 4607		
protein_coding	"MAX interactor 1, dimerization	protein [Source:HGNC			
Symbol;Acc:HGNC:7534]"	bHLH	738 933	474 960	1265	
1096	8.760580049	8.928888289	4.766093799		
10.07521302	11.96550165	11.10550668			
ENSG00000240184	1519.09068	1120.683929	1868.572773		
1076.907854	1079.268515	1120.548123	1502.782461		

1092.241497	0.46016208	0.01384545	0.0769656	
PCDHGC3 5	141475947	141512979	+ 5432	
protein_coding	"protocadherin gamma subfamily C, 3 [Source:HGNC			
Symbol;Acc:HGNC:8716]"	-	1313 1209	1911 1072	1181
1142	13.21903272	9.812970597	16.29683924	
9.541930315	9.474334942	9.814142927		
ENSG00000053254	624.7593049	671.112626	672.7253103	
910.1478692	867.2530237	823.2398208	656.1990804	
866.8802379	-0.401299894	0.013859881	0.077002702	FOXN3
14	89124871	89619149	- 11033	
protein_coding	forkhead box N3 [Source:HGNC Symbol;Acc:HGNC:1928]			
Fork	540 724	688 906	949 839	
2.676670142	2.893202995	2.888665642	3.970414022	
3.748272805	3.549885771			
ENSG00000135506	1147.705982	1119.756978	1554.699482	
818.7312509	719.2077235	1151.94702	1274.054147	
896.6286648	0.507184279	0.013862199	0.077002702	OS9
12	57693955	57721557	+ 5169	
protein_coding	"OS9, endoplasmic reticulum lectin [Source:HGNC			
Symbol;Acc:HGNC:16994]"	-	992 1208	1590 815	787
1174	10.49542073	10.3037274	14.24928418	
7.623462934	6.634784142	10.60248339		
ENSG00000234841	2.313923351	1.853902282	0.977798416	
19.08698622	9.138598774	17.66187935	1.715208016	
15.29582145	-3.16639379	0.013868883	1 AC017007.2	
4	112826307	112827607	+ 1301	
processed_pseudogene	"TAF4b RNA polymerase II, TATA box binding			
protein (TBP)-associated factor, 105kDa (TAF4B) pseudogene"	-			
2	2 1	19 10	18 0.084071232	
0.067777673	0.035606162	0.706118388	0.334951017	
0.645864247				
ENSG00000082153	7958.739367	6361.66568	6488.67029	
5011.84075	5899.879369	5571.34172	6936.358446	
5494.353946	0.336024739	0.013869712	0.077016448	BZW1
2	200810594	200827338	+ 8085	
protein_coding	basic leucine zipper and W2 domains 1 [Source:HGNC			
Symbol;Acc:HGNC:18380]"	-	6879 6863	6636 4989	6456
5678	46.53074413	37.4255277	38.0214617	
29.83559452	34.7970234	32.78395914		
ENSG00000205097	276.5138405	379.1230166	248.3607977	
344.5703302	562.0238246	493.5514063	301.3325516	
466.715187	-0.630697771	0.013888555	0.077093077	FRG2
4	190024351	190027257	- 2103	
protein_coding	FSHD region gene 2 [Source:HGNC Symbol;Acc:HGNC:19136]			
-	239 409	254 343	615 503	
6.215174706	8.574681417	5.594958889	7.885987128	
12.74366777	11.16541188			
ENSG00000085644	396.8378548	468.1103261	483.0324176	
625.8522323	666.2038506	572.0486479	449.3268662	
621.3682436	-0.466895108	0.013927852	0.07728315	ZNF213

16	3129777	3142805	+	6443	protein_coding	zinc
finger protein 213	[Source:HGNC	Symbol;Acc:HGNC:13005]	zf-C2H2	343		
505	494	623	729	583	2.911392115	
3.455709324	3.551740875		4.675210093		4.930579829	
4.224024799						
ENSG00000272335	203.6252549		172.4129122		135.9139798	
308.4055142	243.0867274		263.9469747		170.6507157	
271.8130721	-0.672949932		0.013933919		0.077288761	
AC093297.2	5	44826076		44828592	+	2517
lincRNA novel transcript			-		176	186
307	266	269	3.824055309		3.258094574	139
2.558197325	5.897342845		4.605290376		4.989018338	
ENSG00000236045	27.76708022		8.342560268		2.933395248	
72.32963199	27.41579632		50.04199149		13.01434524	
49.92913993	-1.955775149		0.013952281		0.077362538	
AL031283.3	1	15334166		15335464	-	727
antisense novel transcript			-		24	9
3	72	30	51	1.805392124	0.545810714	
0.191156601	4.788497908		1.79823084		3.274777525	
ENSG00000172845	2722.330823		1859.463989		2170.712484	
1688.695991	1790.2515		1641.573564		2250.835765	
1706.840352	0.398556152		0.013991493		0.077551835	SP3
2	173906459		173965702		-	10704
protein_coding	Sp3 transcription factor	[Source:HGNC				
Symbol;Acc:HGNC:11208]	zf-C2H2	2353	2006	2220	1681	1959
1673	12.02182881		8.262639146		9.607476477	
7.593164865	7.975298252		7.296185656			
ENSG00000240857	306.5948441		366.1457006		346.1406393	
531.4218795	417.633964		510.2320701		339.6270613	
486.4293045	-0.516980624		0.01400081		0.07757535	RDH14
2	18554723		18560680		-	1587
protein_coding	retinol dehydrogenase 14	[Source:HGNC				
Symbol;Acc:HGNC:19979]	-	265	395	354	529	457
520	9.131952838		10.97372637		10.33305619	
16.1168425	12.54867498		15.29580903			
ENSG00000272072	12.72657843		6.488657986		15.64477466	
80.36625776	16.44947779		35.3237587		11.62000369	
44.04649809	-1.924251169		0.014008211		0.077588231	
AC004492.1	7	107192559		107193300	-	742
antisense	"novel transcript, antisense to HBP1"					-
11	7	16	80	18	36	0.810743532
0.415937515	0.998891996		5.212994878		1.057127079	
2.264877051						
ENSG00000082438	414.1922799		261.4002217		421.4311174	
254.1582902	220.2402305		232.5480781		365.6745397	
235.6488662	0.633116865		0.014014379		0.077594283	COBLL1
2	164653624		164843679		-	17178
protein_coding	codon-bleu WH2 repeat protein like 1	[Source:HGNC				
Symbol;Acc:HGNC:23571]	-	358	282	431	253	241
237	1.139738296		0.723786482		1.162270266	

0.712113369	0.611368477	0.644053261				
ENSG00000166913	11942.15842	10253.93352	10105.54663			
8488.685976	9119.407717	8644.508727	10767.21286			
8750.867473	0.299036807	0.014079701	0.077927729	YWHAB		
20	44885676	44908532	+ 7933			
protein_coding	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein beta [Source:HGNC Symbol;Acc:HGNC:12849]					-
10322	11062	10335	8450	9979	8810	71.15757074
61.47947608	60.34975099	51.50157032	54.8161041			
51.84232734						
ENSG00000142534	14768.61579	21559.02963	19071.95811			
19735.94375	23477.97411	31688.3552	18466.53451			
24967.42435	-0.435083765	0.014094339	0.077980515	RPS11		
19	49496365	49499689	+ 1390			
protein_coding	ribosomal protein S11 [Source:HGNC Symbol;Acc:HGNC:10384]					-
32295	502.2277803	737.7199428	650.0303138	12765	23258	19505 19646 25691
683.3773116	805.4244452	1084.592319				
ENSG00000174842	595.835263	555.2437334	541.7003226			
321.465031	504.4506523	323.8011214	564.259773			
383.2389349	0.557024549	0.014109712	0.078037324	GLMN		
1	92246402	92298987	- 2910			
protein_coding	"glomulin, FKBP associated protein [Source:HGNC Symbol;Acc:HGNC:14373]"					-
330	9.678520021	9.075442121	8.818997745	515	599	554 320 552
5.316896494	8.266176735	5.293793383				
ENSG00000259039	0	0	15.06867333	4.569299387		
3.924862078	0	7.854278265	-5.392104452			
0.014117666	1	AL161804.1	14	57578409		
57600404	+	1430	antisense	"novel transcript,		
antisense to SLC35F4"	-	0	0	0	15	5
4	0	0	0	0.507173365	0.152367578	
0.130577993						
ENSG00000168282	9.255693406	45.4206059	32.26734773			
67.30674088	73.10879019	94.19668987	28.98121568			
78.20407365	-1.422389724	0.014135628	0.078147526	MGAT2		
14	49620795	49623481	+ 2687			
protein_coding	"mannosyl (alpha-1,6-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase [Source:HGNC Symbol;Acc:HGNC:7045]"					
-	8	49	33	67	80	96
0.16282348	0.804011705	0.568916762	1.205614195			
1.297420986	1.667821632					
ENSG00000165632	365.5998895	478.3067887	572.9898719			
724.3008981	664.3761309	632.8840101	472.29885			
673.8536797	-0.511360811	0.014142786	0.078147526	TAF3		
10	7818504	8016627	+ 4872	protein_coding	TATA-	
box binding protein associated factor 3 [Source:HGNC Symbol;Acc:HGNC:17303]	-	316	516	586	721	727
645	3.547108849	4.669564515	5.571765016			
7.155322316	6.502580375	6.180142241				

ENSG00000101335	852.680755	1192.986118	1050.155499		
830.7861896	716.4661439	736.8928551	1031.940791		
761.3817295	0.439623092	0.014144973	0.078147526	MYL9	
20	36541484	36551447	+	2821	
protein_coding	myosin light chain 9 [Source:HGNC				
Symbol;Acc:HGNC:15754]	-	737	1287	1074	827
751	14.28759445	20.11450821	17.6361446		784
14.17436591	12.11076492	12.42747467			
ENSG00000166317	13.88354011	9.269511408	0.977798416		0
0	0	8.043616644	0	5.498028297	
0.014165205	1	SYNP02L 10	73644881	73663803	
-	5147	protein_coding	synaptopodin 2 like		
[Source:HGNC Symbol;Acc:HGNC:23532]	-	12	10		1
0	0	0	0.127503407	0.085660339	
0.00900012	0	0	0		
ENSG00000236453	111.0683209	124.2114529	29.33395248		
259.1811813	157.1838989	156.0132676	88.20457541		
190.7927826	-1.113634343	0.014171179	0.078264025		
AC003092.1	7	94022833	94066661	+	1064
lincRNA	novel transcript		-	96	134
258	172	159	4.934285994	5.552609456	30
1.306117001	11.72409407	7.044422843	6.975920654		
ENSG00000134851	1318.93631	1376.522444	1702.347043		
956.3584674	1089.320974	1249.087356	1465.935266		
1098.255599	0.416789981	0.014181173	0.078290931		
TMEM165 4	55395957	55453397	+	7045	
protein_coding	transmembrane protein 165 [Source:HGNC				
Symbol;Acc:HGNC:30760]	-	1140	1485	1741	952
1273	8.849496598	9.293502373	11.44775245		1192
6.533669577	7.373163351	8.435162277			
ENSG00000162631	242.9619519	88.98730952	94.84644637		
27.12361199	55.74545252	95.17790539	142.2652359		
59.34898997	1.25826874	0.014207513	0.078408031	NTNG1	
1	107140007	107483458	+	9138	
protein_coding	netrin G1 [Source:HGNC Symbol;Acc:HGNC:23319]				
210	96	97	27	61	97
0.463184521	0.491725846	0.142861046	0.290895685		
0.495526194					
ENSG00000267500	35.86581195	23.17377852	44.97872714		
6.027469332	6.397019142	14.71823279	34.67277254		
9.047573755	1.938744003	0.014222185	0.078460678		
ZNF887P 19	11648364	11652877	+	1407	
transcribed_unprocessed_pseudogene	"zinc finger protein 887,				
pseudogene [Source:HGNC Symbol;Acc:HGNC:38700]"	-	31	25		
46	6	7	15	1.204931364	0.783393329
1.514489233	0.206185618	0.216801629	0.497671989		
ENSG00000224078	113.3822442	111.2341369	131.0249878		
264.2040724	170.8917971	172.6939314	118.547123		
202.5966003	-0.772297513	0.014256663	0.078622513	SNHG14	
15	24978583	25419462	+	43324	

processed_transcript	small nucleolar RNA	host gene 14	[Source:HGNC			
Symbol;Acc:HGNC:37462]	-	98	120	134	263	187
176	0.123706421	0.122119961	0.143277735			
0.293513728	0.188092577	0.189640092				
ENSG00000189157	8.09873173	8.342560268	5.866790497	0		
0	0	7.436027498	0	5.387192528		
0.014260085	1	FAM47E	4	76214040	76283780	
+	9508	protein_coding	family with sequence			
similarity 47 member E	[Source:HGNC Symbol;Acc:HGNC:34343]			-		
7	9	6	0	0	0	0.040262763
0.041733739	0.029232404	0	0	0	0	
ENSG00000138944	1036.637661	1068.774665	1605.544999			
818.7312509	997.0211263	841.8829157	1236.985775			
885.878431	0.481758044	0.01427095	0.078672925			
SHISAL1 22	44243667	44312851	-	6751		
protein_coding	shisa like 1	[Source:HGNC Symbol;Acc:HGNC:29335]				
-	896	1153	1642	815	1091	858
7.258294985	7.53000314	11.26697941	5.837013762			
7.042311649	5.932875238					
ENSG00000177410	1034.323738	1004.815037	881.9741714			
1000.559909	1398.205612	1647.460857	973.7043154			
1348.742126	-0.470349029	0.0142851	0.078722542			ZFAS1
20	49278178	49295738	+	2243		
antisense	ZNFx1 antisense	RNA 1	[Source:HGNC			
Symbol;Acc:HGNC:33101]	-	894	1084	902	996	1530
1679	21.79731287	21.3075721	18.62857865			
21.46996227	29.72492414	34.94358496				
ENSG00000108468	2263.017038	2411.926868	2724.146387			
1889.611636	1988.559093	1991.867505	2466.363431			
1956.679411	0.334141582	0.01429289	0.078733233			CBX1
17	48070052	48101521	-	3087		
protein_coding	chromobox 1	[Source:HGNC Symbol;Acc:HGNC:1551]			-	
1956	2602	2786	1881	2176	2030	34.65189053
37.1624742	41.80680112	29.46140013	30.71714581			
30.6976722						
ENSG00000104081	13.88354011	18.53902282	44.97872714			
64.29300621	91.38598774	54.94806909	25.80043002			
70.20902101	-1.440163212	0.014299832	0.078733233			BMF
15	40087890	40108892	-	5447		
protein_coding	Bcl2 modifying	factor	[Source:HGNC			
Symbol;Acc:HGNC:24132]	-	12	20	46	64	100
56	0.120481006	0.161884988	0.391203663			
0.568098726	0.800020697	0.479928662				
ENSG00000183735	1072.503473	869.4801701	916.1971159			
671.0582523	710.9829846	762.4044586	952.7269198			
714.8152319	0.413792693	0.014302492	0.078733233			TBK1
12	64451880	64502108	+	4762		
protein_coding	TANK binding	kinase 1	[Source:HGNC			
Symbol;Acc:HGNC:11584]	-	927	938	937	668	778
777	10.64596553	8.684551707	9.114915684			

6.782476347	7.119488677	7.616889646				
ENSG00000147041	105.2835125	50.98231275	75.29047804			
40.18312888	31.98509571	24.53038799	77.18543443			
32.23287086	1.257436055	0.014338089	0.078900783	SYTL5		
X	38006582	38128819	+ 4791			
protein_coding	synaptotagmin like 5 [Source:HGNC					
Symbol;Acc:HGNC:15589]	-	91	55	77	40	35
25	1.038747363	0.506139785	0.744503957			
0.403677959	0.318346787	0.243590235				
ENSG00000162825	160.8176729	144.604378	162.3145371			
309.4100924	210.1877718	231.5668626	155.912196			
250.3882423	-0.683361108	0.014347511	0.078924215	NBPF20		
1	145289900	145405778	- 18995			
protein_coding	NBPF member 20 [Source:HGNC					
Symbol;Acc:HGNC:32000]	-	139	156	166	308	230
236						
0.40019367	0.362092274	0.404828655	0.783993812			
0.52765145	0.579987643					
ENSG00000132622	5.784808379	20.3929251	31.28954932			
56.25638043	49.34843338	69.66630188	19.15576093			
58.42370523	-1.598845481	0.014373323	0.079012466			
HSPA12B 20	3732667	3753111	+ 3151	protein_coding	heat	
shock protein family A (Hsp70) member 12B	[Source:HGNC					
Symbol;Acc:HGNC:16193]	-	5	22	32	56	54
71	0.086779334	0.307828081	0.470439772			
0.859292142	0.74679939	1.051855256				
ENSG0000004897	4227.537963	3212.812654	3980.617352			
3190.540433	2981.92478	2767.027765	3806.989323			
2979.830993	0.353203294	0.014373891	0.079012466	CDC27		
17	47117703	47189422	- 6824			
protein_coding	cell division cycle 27 [Source:HGNC					
Symbol;Acc:HGNC:1728]	-	3654	3466	4071	3176	3263
2820	29.2835846	22.39357843	27.63532269			
22.50311772	20.83707013	19.29106152				
ENSG00000140675	3.470885027	10.19646255	5.866790497			
68.3113191	21.93263706	8.830939675	6.511379358			
33.02496528	-2.32997264	0.014382658	0.07903224	SLC5A2		
16	31483002	31490860	+ 4468			
protein_coding	solute carrier family 5 member 2 [Source:HGNC					
Symbol;Acc:HGNC:11037]	-	3	11	6	68	24
9	0.036720011	0.108545914	0.062207184			
0.735862997	0.234075886	0.094031937				
ENSG00000137252	9.255693406	2.780853423	10.75578258	0		
0	0	7.597443135	0	5.416677039		
0.014414757	1	HCRTR2	6	55106460	55282620	
+	1964	protein_coding	hypocretin receptor 2			
[Source:HGNC	Symbol;Acc:HGNC:4849]					
0	0	0	0.222763081	0.067346298		11
0.25944999	0	0	0			
ENSG00000078124	1074.817397	882.4574861	968.9982304			
738.3649932	780.4363353	688.8132947	975.4243711			

735.8715411	0.405867912	0.01444808	0.079363203	ACER3
11	76860867	77026797	+ 8442	
protein_coding	alkaline ceramidase 3 [Source:HGNC			
Symbol;Acc:HGNC:16066]	-	929 952	991 735	854
702	6.018178695	4.971936331	5.43789431	
4.20962304	4.408299782	3.881841513		
ENSG00000137857	9.255693406	26.88158308	29.33395248	
92.42119643	29.24351608	74.57237948	21.82374299	
65.41236399	-1.574539773	0.014470426	0.0794574	DUOX1
15	45129933	45165576	+ 8784	
protein_coding	dual oxidase 1 [Source:HGNC	Symbol;Acc:HGNC:3062]		
-	8 29	30 92	32 76	
0.049807228	0.14555919	0.158209072	0.506403521	
0.158750919	0.403893906			
ENSG00000233077	6.941770054	7.415609127	7.822387329	0
0	0	7.393255503	0	5.379395446
0.014485959	1	LINC01271	20	50310711
50321342	-	2250	lincRNA long intergenic non-protein	
coding RNA 1271 [Source:HGNC	Symbol;Acc:HGNC:50327]	-	6	
8	8	0	0	0.145835564
0.156762228	0.164706191	0	0	
ENSG00000008226	5.784808379	18.53902282	12.71137941	0
0	1.962431039	12.3450702	0.65414368	
4.253193383	0.014526721	1	DLEC1 3	38039205
38124025	+	8338	protein_coding	"DLEC1, cilia
and flagella associated protein [Source:HGNC	Symbol;Acc:HGNC:2899]"			
-	5 20	13 0	0 2	
0.032794637	0.105755281	0.072224396	0 0	
0.011197321				
ENSG00000279140	0	18.53902282	8.800185745	0 0
0	9.113069521	0	5.684948787	0.014538494
1	AL590326.1	14	104815449	104815753
-	305	TEC	novel transcript	- 0
20	9	0	0 0	2.891106661
1.366926383	0	0	0	
ENSG00000033170	1019.283236	915.8277272	1074.600459	
592.701151	893.7549601	695.6818033	1003.237141	
727.3793048	0.463245707	0.014543248	0.079804431	FUT8
14	65410592	65744121	+ 6700	
protein_coding	fucosyltransferase 8 [Source:HGNC			
Symbol;Acc:HGNC:4019]	-	881 988	1099 590	978
709	7.191108119	6.501537919	7.59845587	
4.257733018	6.360959784	4.939892161		
ENSG00000258770	9.255693406	3.707804563	4.888992081	
47.21517644	38.38211485	5.887293117	5.950830017	
30.49486147	-2.370336169	0.014544067	0.079804431	
LINC02330	14	87634379	87655294	-
lincRNA long intergenic non-protein coding RNA 2330				555
[Source:HGNC	Symbol;Acc:HGNC:53250]	-	8 4	5
47	42	6	0.788300345	0.317761273

0.417329877	4.094549175	3.297728557	0.504666298	
ENSG00000115221	3.470885027	9.269511408	9.777984162	0
0	0	7.506126866	0	5.403631751
0.014549766	1	ITGB6	2	160099666
-	4687	protein_coding	integrin subunit beta 6	160200313
[Source:HGNC Symbol;Acc:HGNC:6161]	-	3	10	10
0	0	0	0.035004269	0.094067371
0.098834257	0	0	0	
ENSG00000139651	638.642845	697.9942091	748.9935868	
1106.040622	810.5937113	915.4740797	695.2102136	
944.0361378	-0.44066635	0.014550496	0.079811064	ZNF740
12	53180700	53195141	+	9063
protein_coding	zinc finger protein 740	[Source:HGNC		
Symbol;Acc:HGNC:27465]	zf-C2H2	552	753	766
933	3.330901656	3.663168991	3.915247721	1101
5.873764843	4.264913601	4.805689416		887
ENSG00000267011	2.313923351	2.780853423	2.933395248	
22.10072088	3.65543951	34.34254318	2.676057341	
20.03290119	-2.898675609	0.014573318	1	AC011498.1
19	4457962	4471493	-	837
transcript	-	2	3	3
0.130677029	0.158026439	0.166034467	22	4
0.208253894	1.952039593		1.270862132	35
ENSG0000099968	1176.630024	1272.703916	1127.401574	
1368.235538	1668.708136	1583.681848	1192.245171	
1540.208508	-0.369461108	0.014579631	0.079915682	
BCL2L13	22	17628855	17730855	+
protein_coding	BCL2 like 13	[Source:HGNC Symbol;Acc:HGNC:17164]	+	7662
-	1017	1373	1153	1362
7.258945204	7.900641352	6.970912243	1826	1614
10.3852564	9.83348407		8.594807941	
ENSG00000163629	581.9517229	482.0145932	624.8131879	
449.0464652	399.3567664	335.5757077	562.9265014	
394.6596464	0.512064	0.0145933	0.079915682	PTPN13
4	86594315	86815171	+	9496
protein_coding	"protein tyrosine phosphatase, non-receptor type 13			
[Source:HGNC Symbol;Acc:HGNC:9646]"	-	503	520	639
447	437	342	2.896823212	2.414329804
3.117185217	2.275977863	2.005392234	1.681246665	
ENSG00000160062	217.508795	119.5766972	199.4708769	
40.18312888	104.180026	118.7270779	178.852123	
87.69674425	1.025903301	0.014594653	0.079915682	ZBTB8A
1	32539427	32605939	+	7075
protein_coding	zinc finger and BTB domain containing 8A	[Source:HGNC		
Symbol;Acc:HGNC:24172]	ZBTB	188	129	204
121	1.453202438	0.803891107	1.335691552	40
0.273359873	0.702161487	0.798371384		114
ENSG00000172315	1109.526247	949.1979682	870.2405904	
1393.349994	1534.370734	1056.769114	976.3216019	
1328.163281	-0.444674524	0.014598978	0.079915682	TP53RK

20	46684365	46689779	-	3520	
protein_coding	TP53 regulating	kinase [Source:HGNC			
Symbol;Acc:HGNC:16197]	-	959 1024	890	1387	1679
1077	14.89946439	12.82600046	11.71250526		
19.05175615	20.78579455	14.28298814			
ENSG00000112851	2444.660021	2236.733103	2237.202776		
1891.620792	1913.622583	1706.333788	2306.198633		
1837.192388	0.327773812	0.014600578	0.079915682		ERBIN
5	65926475	66082549	+	10216	
protein_coding	erbB2 interacting	protein [Source:HGNC			
Symbol;Acc:HGNC:15842]	-	2113 2413	2288	1883	2094
1739	11.31132096	10.41382789	10.37474884		
8.911907133	8.932116746	7.94629591			
ENSG00000145012	3320.480009	2422.123331	3214.023394		
2229.159075	2213.368623	2466.775816	2985.542245		
2303.101171	0.374154808	0.014600935	0.079915682		LPP
3	188153284	188890671	+	25535	
protein_coding	LIM domain containing	preferred translocation partner			
in lipoma [Source:HGNC	Symbol;Acc:HGNC:6679]	-	2870	2613	
3287	2219 2422	2514 6.146682027	4.511671862		
5.963020435	4.201676934	4.133299489	4.595951605		
ENSG00000127580	475.5112487	602.5182416	604.2794212		
817.7266727	711.8968445	766.3293207	560.7696372		
765.3176126	-0.447404739	0.014642372	0.080113795		WDR24
16	684622 690444	- 3651	protein_coding	WD	
repeat domain 24	[Source:HGNC	Symbol;Acc:HGNC:20852]	-	411	
650	618 814	779 781	6.156369837		
7.8493823	7.841138012	10.77987658	9.297886116		
9.985854567					
ENSG00000135637	105.2835125	116.7958437	142.7585688		
214.9797395	186.427415	201.1491815	121.6126417		
200.852112	-0.722266335	0.014684394	0.080301744		
CCDC142 2	74471986	74483408	-	4897	
protein_coding	coiled-coil domain containing	142 [Source:HGNC			
Symbol;Acc:HGNC:25889]	-	91 126	146	214	204
205	1.016262735	1.13442137	1.381100262		
2.112928912	1.815342859	1.954203527			
ENSG00000204899	2869.264956	2819.78537	2506.097341		
1742.943215	2529.564141	1969.299548	2731.715889		
2080.602301	0.39250977	0.01468723	0.080301744		MZT1
13	72708357	72727687	-	2299	
protein_coding	mitotic spindle	organizing protein 1 [Source:HGNC			
Symbol;Acc:HGNC:33830]	-	2480 3042	2563	1735	2768
2007	58.99394274	58.33835735	51.64307465		
36.48898008	52.46693715	40.75251698			
ENSG00000072858	2.313923351	18.53902282	2.933395248		0
0	0	7.928780472	0	5.484343532	
0.01474011	1	SIDT1 3	113532296	113629578	
+	8060	protein_coding	SID1 transmembrane family		
member 1 [Source:HGNC	Symbol;Acc:HGNC:25967]	-	2	20	

3	0	0	0	0.013570307	0.10940292	
0.017242041	0	0	0	0		
ENSG00000100097	8450.448079		11256.89465	12638.04453		
6384.094601	7381.24623		10072.17731	10781.79575		
7945.839379	0.440404004		0.01474202	0.080572489		LGALS1
22	37675608		37679806	+	1099	
protein_coding	galectin 1 [Source:HGNC Symbol;Acc:HGNC:6561]					-
7304	12144	12925	6355	8077	10265	363.460973
487.1896171	544.7977624		279.5883551		320.2661125	
436.0208901						
ENSG00000122299	1347.860352		1073.409421	1156.735526		
1032.706412	798.7135329		839.9204847	1192.668433		
890.4468099	0.421323933		0.014759696	0.08064027		ZC3H7A
16	11750586		11797267	-	7076	
protein_coding	zinc finger CCCH-type containing 7A [Source:HGNC Symbol;Acc:HGNC:30959]					-
856	9.003944593		7.215304986	7.744606854		874
7.024355888	5.38247729		5.647184492			
ENSG00000124659	572.6960295		654.4275054	532.9001368		
651.9712661	861.7698644		935.0983901	586.6745572		
816.2798402	-0.476386661		0.014796045	0.080781087		TBCC
6	42744481		42746096	-	1616	
protein_coding	tubulin folding cofactor C [Source:HGNC Symbol;Acc:HGNC:11580]					-
953	16.75168721		495	706	545	649
19.41800269	25.42897964		19.26181922	15.62275426		943
ENSG00000053372	3564.598923		3926.565033	3669.677456		
4407.08466	4791.367337		4501.816803	3720.28047		
4566.756267	-0.295674371		0.014797604	0.080781087		MRT04
1	19251539		19260128	+	2822	
protein_coding	"MRT4 homolog, ribosome maturation factor [Source:HGNC Symbol;Acc:HGNC:18477]"					-
4588	59.70757071		3081	4236	3753	4387
75.16433881	80.96204065		66.18093522	61.60614175		
ENSG00000163964	890.8604903		937.1476034	1035.488523		
731.3329456	784.0917748		634.8464411	954.4988721		
716.7570539	0.413338508		0.014801323	0.080781087		PIGX
3	196639775		196736007	+	4446	
protein_coding	phosphatidylinositol glycan anchor biosynthesis class X [Source:HGNC Symbol;Acc:HGNC:26046]					-
728	858	647	9.471439283	10.02572193		1059
11.03389781	7.917045437		8.409621068	6.793301004		
ENSG00000109452	541.4580642		286.4279025	356.8964219		
308.4055142	217.4986508		206.0552591	394.9274629		
243.9864747	0.693538822		0.014807149	0.08078404		INPP4B
4	142023160		142847432	-	14153	
protein_coding	inositol polyphosphate-4-phosphatase type II B [Source:HGNC Symbol;Acc:HGNC:6075]					-
307	238	210	1.808389843	0.96259573		365
1.194666852	1.048796152		0.732802679	0.692654761		

ENSG00000184588	252.2176453	107.5263323	188.7150943	
84.38457065	110.5770452	98.12155195	182.8196907	
97.69438925	0.90105481	0.014818018	0.080814498	PDE4B
1	65792514	66374579	+ 8644	
protein_coding	phosphodiesterase 4B [Source:HGNC			
Symbol;Acc:HGNC:8781]	-	218 116	193 84	121
100	1.379229216	0.591666784	1.034296385	
0.469857046	0.609999122	0.540046651		
ENSG00000134186	2444.660021	2402.657357	2733.924372	
2162.856912	1824.978175	2015.416677	2527.080583	
2001.083921	0.336871818	0.01483891	0.080899579	
PRPF38B 1	108692323	108701803	+ 5817	
protein_coding	pre-mRNA processing factor 38B [Source:HGNC			
Symbol;Acc:HGNC:25512]	-	2113 2592	2796 2153	1997
2054	19.86530082	19.64580782	22.26591563	
17.89559665	14.96020686	16.48342329		
ENSG00000282849	12.72657843	8.342560268	1.955596832	0
0	0	7.674911844	0	5.430375352
0.014865933	1	AL359834.1	1	200478020
200483604	-	638	lincRNA novel transcript -	
11	9	2	0	0
	0.621950453	0.145215098	0	0.942902352
ENSG00000176912	31.23796524	32.44328993	58.66790497	
5.02289111	19.19105743	9.812155195	40.78305338	
11.34203458	1.841542276	0.0148682	0.081024336	TYMSOS
18	641320	658340	- 976	
bidirectional_promoter_lncRNA	TYMS opposite strand [Source:HGNC			
Symbol;Acc:HGNC:29553]	-	27 35	60 5	21
10	1.512894553	1.581073955	2.847763298	
0.247697374	0.937622617	0.478295416		
ENSG00000148110	1834.941218	1736.179487	1727.769801	
1465.679626	1386.325434	1358.983494	1766.296835	
1403.662851	0.33141892	0.014872394	0.081024336	
MFSD14B 9	94374551	94461042	+ 3428	
protein_coding	major facilitator superfamily domain containing 14B			
[Source:HGNC Symbol;Acc:HGNC:23376]	-		1586 1873	1767
1459	1517	1385	25.30212998	24.08967396
23.87801343	20.57859382	19.28427719	18.86057791	
ENSG00000100983	1379.098317	1424.723903	1532.210118	
1188.416037	1135.927828	1071.487347	1445.344113	
1131.943737	0.35280107	0.014879643	0.081034952	GSS
20	34928433	34956027	- 6174	
protein_coding	glutathione synthetase [Source:HGNC			
Symbol;Acc:HGNC:4624]	-	1192 1537	1567 1183	1243
1092	10.55855151	10.97592676	11.75722494	
9.264443476	8.773302446	8.256615282		
ENSG00000250990	6.941770054	9.269511408	5.866790497	0
0	0	7.35935732	0	5.373076698
0.01493829	1	AC098851.1	7	77246340
77258123	-	570	antisense novel transcript	

-	6	10	6	0	0	0		
0.575666699	0.773497835		0.487617014		0	0	0	
ENSG00000115226	220.9796801		243.78815		149.6031577			
236.0758822	438.6527412		337.5381387		204.7903293			
337.422254	-0.721187281		0.014965791		0.081472869		FNDC4	
2	27491883		27495245		-	1982		
protein_coding	fibronectin type III domain containing 4 [Source:HGNC							
Symbol;Acc:HGNC:20239]	-		191	263	153	235	480	
344	5.270167638		5.85040668		3.575940109			
5.732782019	10.55349199		8.102160242					
ENSG00000173409	694.1770054		659.0622611		619.9241958			
375.712255	507.192232		526.912734		657.7211541			
469.9390737	0.48439394		0.014972918		0.081472869		ARV1	
1	230978981		231000595		+	1987		
protein_coding	"ARV1 homolog, fatty acid homeostasis modulator							
[Source:HGNC Symbol;Acc:HGNC:29561]"	-		600	711			634	
374	555	537	16.5138409		15.77631945			
14.78066067	9.100703212		12.17176934		12.61602249			
ENSG00000232098	489.3947888		611.787753		535.8335321			
1029.692678	608.6306784		729.043131		545.6720246			
789.1221623	-0.531186437		0.014976043		0.081472869			
AC012313.1	19	58404238	58408484		-		3417	
lincRNA	novel transcript							
1025	666	743	6.770022333		423	660	548	
7.429131326	14.50374325		8.493522627		10.15055692			
ENSG00000224715	2.313923351		2.780853423		0	30.13734666		
11.88017841	7.849724156		1.698258925		16.62241641			
-3.295057699	0.015000027		1		782186.1		22	
47345569	47373541		+		4364	lincRNA		
uncharacterized	LOC339685 [Source:NCBI gene;Acc:339685]							2
3	0	30	13	8	0.025063399			
0.030308921	0	0.332382178	0.129812708		0.085575862			
ENSG00000228748	11.56961676		6.488657986		18.57816991		0	
0	1.962431039		12.21214822		0.65414368			
4.234023162	0.015005305		1	AL450306.1	10			
77782866	77793176		+	3532	antisense		novel	
transcript	-	10	7	19	0	0	2	
0.15483674	0.087379852		0.249192726		0		0	
0.026433541								
ENSG0000090857	1276.128728		1238.406724		1340.561629			
1812.259113	1445.726326		1708.296219		1285.03236			
1655.427219	-0.365219702		0.015010676		0.081632234		PDPR	
16	70113626		70162537		+	10385		
protein_coding	pyruvate dehydrogenase phosphatase regulatory subunit							
[Source:HGNC Symbol;Acc:HGNC:30264]	-		1103	1336			1371	
1804	1582	1741	5.808496397		5.671969871			
6.115520266	8.399070929		6.638325997		7.825972295			
ENSG00000173988	21.98227184		56.54401959		22.48936357			
2.009156444	12.79403828		7.849724156		33.671885			
7.550972961	2.152865956		0.015059742		0.081869944		LRR63	

13	46211943	46277366	+	2677	
protein_coding	leucine rich repeat containing	63	[Source:HGNC		
Symbol;Acc:HGNC:34296]	-	19	61	23	2
8	0.388150315	1.004651465	0.397998945		14
0.036122919	0.227896818	0.139504318			
ENSG00000180185	882.7617586	862.9915121	778.3275393		
952.3401545	1333.321561	1103.867459	841.36027		
1129.843058	-0.425824549	0.015087754	0.081967878		FAHD1
16	1826941	1840207	+	3039	
protein_coding	fumarylacetoacetate hydrolase domain containing	1	[Source:HGNC		
Symbol;Acc:HGNC:14169]	-	763	931	796	948
1125	13.7305695	13.50681461	12.13346449		1459
15.0826917	20.92103613	17.28095973			
ENSG00000171408	127.2657843	104.7454789	141.7807703		
78.35710132	57.57317228	62.79779325	124.5973445		
66.24268895	0.911877707	0.015088481	0.081967878		PDE7B
6	135851696	136195574	+	5946	
protein_coding	phosphodiesterase 7B	[Source:HGNC			
Symbol;Acc:HGNC:8792]	-	110	113	145	78
64	1.011725026	0.837890944	1.129654283		63
0.634265245	0.461715275	0.50245955			
ENSG00000086717	46.27846703	16.68512054	48.88992081		
17.07782977	6.397019142	3.924862078	37.28450279		
9.133236998	2.031327303	0.015094563	0.081971786		PPEF1
X	18675909	18827921	+	3513	
protein_coding	protein phosphatase with EF-hand domain 1	[Source:HGNC			
Symbol;Acc:HGNC:9243]	-	40	18	50	17
4	0.622696686	0.225906285	0.659317055		7
0.233976364	0.086831737	0.053153012			
ENSG00000164111	12984.58089	9827.535995	10394.97496		
8035.621198	8378.267356	9716.977289	11069.03061		
8710.288614	0.345629783	0.015109393	0.081998999		ANXA5
4	121667955	121697113	-	3034	
protein_coding	annexin A5	[Source:HGNC			
Symbol;Acc:HGNC:543]	-	11223	10602	10631	7999
11223	10602	10631	7999	9168	9903
154.065778	162.3158751	127.4739187	131.6793354		
152.3692179					
ENSG00000232059	0	0	1.955596832	18.082408	
10.96631853	7.849724156	0.651865611			
12.29948356	-4.208632448	0.015109439	1	AL451007.1	
1	244694432	244694720	-	289	
processed_pseudogene	ribosomal protein L37 (RPL37)	pseudogene			
-	0	0	2	18	12
0	0.32057866	3.011451539	1.809430894		0
1.292225123					
ENSG00000160785	1411.493244	1412.673539	1580.122241		
2130.710409	1893.517666	1657.273012	1468.096341		
1893.833696	-0.367219735	0.015110367	0.081998999		
SLC25A44	1	156193932	156212796	+	7293
protein_coding	solute carrier family 25 member 44				

[Source:HGNC Symbol;Acc:HGNC:29036]	-	1220	1524	1616
2121	2072 1689	9.148467084	9.213246936	
10.26449526	14.06163017	12.38061263	10.81108973	
ENSG00000100519	2272.272731	1987.383246	1922.351686	
1520.931428	1646.775499	1703.390142	2060.669221	
1623.699023	0.343450836	0.015115666	0.081998999	PSMC6
14	52707172	52728587	+ 7482	
protein_coding	"proteasome 26S subunit, ATPase 6 [Source:HGNC			
Symbol;Acc:HGNC:9553]"	-	1964 2144	1966 1514	1802
1736	14.35550558	12.63400473	12.17217718	
9.783841035	10.4953199	10.83123685		
ENSG00000088543	200.1543699	158.5086451	151.5587545	
233.0621475	286.9520015	277.683992	170.0739232	
265.8993803	-0.646904359	0.015152623	0.082170327	
C3orf18 3	50558025	50571027	- 3248	
protein_coding	chromosome 3 open reading frame 18 [Source:HGNC			
Symbol;Acc:HGNC:24837]"	-	173 171	155 232	314
283	2.912894767	2.321207942	2.210640557	
3.453609107	4.21281342	4.06739594		
ENSG00000131759	1136.136366	1233.771968	1209.536641	
1428.510232	1522.490556	1603.306159	1193.148325	
1518.102315	-0.347251277	0.015169854	0.082234593	RARA
17	40309192	40357643	+ 4731	
protein_coding	retinoic acid receptor alpha [Source:HGNC			
Symbol;Acc:HGNC:9864]"	THR-like	982	1331 1237	1422
1666	1634 11.35149997	12.40392311	12.1120933	
14.53275208	15.34548598	16.12297349		
ENSG00000163072	91.39997238	38.93194792	110.491221	
26.11903377	42.03755436	28.45525006	80.27438044	
32.20394607	1.314488302	0.015175409	0.082235547	
NOSTRIN 2	168786539	168865514	+ 5248	
protein_coding	nitric oxide synthase trafficking [Source:HGNC			
Symbol;Acc:HGNC:20203]"	-	79 42	113 26	46
29	0.823242869	0.352849431	0.997440671	
0.239541485	0.38196415	0.257958716		
ENSG00000169083	310.0657291	420.8358179	599.3904291	
294.3414191	283.296562	283.5712851	443.4306587	
287.0697554	0.628514898	0.015191935	0.082295928	AR
X	67544032	67730619	+ 12775	
protein_coding	androgen receptor [Source:HGNC Symbol;Acc:HGNC:644]"			
ESR-like	268 454 613	293 310	289	
1.147277821	1.56685534	2.22280836	1.108939691	
1.057448883	1.056046326			
ENSG00000154240	285.7695339	276.23144	317.7844853	
147.6729986	223.89567	193.2994573	293.2618197	
188.2893753	0.638393378	0.015204551	0.082335093	CEP112
17	65635538	66192084	- 7849	
protein_coding	centrosomal protein 112 [Source:HGNC			
Symbol;Acc:HGNC:28514]"	-	247 298	325 147	245
197	1.720985998	1.673924604	1.91810107	

0.905532876	1.360223748	1.171650097			
ENSG00000260454	18.51138681	10.19646255	18.57816991		
75.34336665	41.12369448	29.43646558	15.76200642		
48.63450891	-1.629105188	0.015213946	0.082356798		
AL355607.2	9	90997054	91001871	+	1395
lincRNA	novel transcript	-	16	11	19
75	45	30	0.627249737	0.347658167	
0.630930975	2.599490725	1.405713786	1.003906076		
ENSG00000148672	4290.013894	3734.686146	3559.186235		
2524.505072	3385.850846	3102.603473	3861.295425		
3004.319797	0.361756143	0.015252094	0.082534076		GLUD1
10	87050486	87094866	-	3519	
protein_coding	glutamate dehydrogenase 1 [Source:HGNC				
Symbol;Acc:HGNC:4335]	-	3708	4029	3640	2513
3162	57.62556166	50.4791413	47.91644313		3705
34.52823972	45.88043673	41.94581476			
ENSG00000172893	2192.442375	3007.956452	4200.621996		
2232.172809	2159.45089	2386.316143	3133.673608		
2259.313281	0.472282361	0.015264684	0.082572971		DHCR7
11	71428193	71452868	-	4160	
protein_coding	7-dehydrocholesterol reductase [Source:HGNC				
Symbol;Acc:HGNC:2860]	-	1895	3245	4296	2222
2432	24.91211479	34.39183341	47.83804223		2363
25.82569041	24.75306537	27.29080057			
ENSG00000066739	1361.743892	1137.36905	1020.821546		
1003.573644	736.5710612	852.6762864	1173.311496		
864.2736638	0.440821338	0.01527998	0.082626478		ATG2B
14	96279202	96363870	-	14778	
protein_coding	autophagy related 2B [Source:HGNC				
Symbol;Acc:HGNC:20187]	-	1177	1227	1044	999
869	4.355675462	3.660689204	3.272557547		806
3.268519215	2.376719762	2.745049309			
ENSG00000171872	9.255693406	10.19646255	2.933395248		0
0	0	7.461850401	0	5.391846914	
0.015306654	1	KLF17	1	44118850	44135140
+	3131	protein_coding	Kruppel like factor 17		
[Source:HGNC	Symbol;Acc:HGNC:18830]	zf-C2H2	8	11	3
0	0	0	0.139733852	0.154897203	
0.044385452	0	0	0		
ENSG00000223478	17.35442514	18.53902282	22.48936357		
5.02289111	0	2.943646558	19.46093717	2.655512556	
2.887801488	0.015307662	1	AL441992.1	9	
128724445	128733194	+	544	antisense	
uncharacterized	LOC100506100 [Source:NCBI gene;Acc:100506100]				
-	15	20	23	5	0
1.507950453	1.620932962	1.958535249	0.444398231		0
0.257435474					
ENSG00000104979	1198.612296	1841.851917	1820.660651		
2298.474972	1902.656265	2401.034376	1620.374955		
2200.721871	-0.440892565	0.015325172	0.082841551		

C19orf53	19	13774168	13778462	+	1174
protein_coding	chromosome 19 open reading frame 53				
[Source:HGNC Symbol;Acc:HGNC:24991]			-	1036 1987	1862
2288	2082 2447	48.25989484	74.62145763		
73.47067596	94.22998884	77.28073181	97.29979119		
ENSG00000167552	9283.460486	6803.821374	6901.301221		
8442.475378	11544.79183	10039.7972	7662.861027		
10009.02147	-0.385532851	0.015338938	0.082886652		TUBA1A
12	49184796	49189324	- 3421		
protein_coding	tubulin alpha 1a	[Source:HGNC Symbol;Acc:HGNC:20766]			
-	8024 7340	7058 8404	12633 10232		
128.2722045	94.59690853	95.57207949	118.7775016		
160.9207395	139.6218837				
ENSG00000224080	33.5518886	16.68512054	9.777984162		
94.43035287	31.98509571	54.94806909	20.00499776		
60.45450589	-1.603627258	0.015389528	0.083130643		
UBE2FP1 3	37143512	37143958	- 447		
processed_pseudogene	UBE2F pseudogene 1	[Source:HGNC			
Symbol;Acc:HGNC:44535]	-	29 18	10 94		35
56	3.548012878	1.775411137	1.036322513		
10.16767245	3.412079323	5.848258217			
ENSG00000197714	146.9341328	186.3171793	228.8048294		
409.8679146	332.6449954	201.1491815	187.3520472		
314.5540305	-0.746079623	0.015395788	0.083131216		ZNF460
19	57280051	57293569	+ 3505		
protein_coding	zinc finger protein 460	[Source:HGNC			
Symbol;Acc:HGNC:21628]	zf-C2H2	127 201	234 408		364
205	1.98157453	2.528377944	3.092646567		
5.628249705	4.525556165	2.730309465			
ENSG00000116521	3612.034352	4344.619997	4334.580379		
4603.981992	5297.645709	5573.304151	4097.078243		
5158.310617	-0.332123485	0.01540051	0.083131216		SCAMP3
1	155255979	155262430	- 2442		
protein_coding	secretory carrier membrane protein 3	[Source:HGNC			
Symbol;Acc:HGNC:10565]	-	3122 4687	4433 4583		5797
5680	69.91686582	84.62199346	84.09197015		
90.74138718	103.4466041	108.5797186			
ENSG00000116815	893.1744137	609.9338507	557.3450972		
377.7214115	493.4843338	530.837596	686.8177872		
467.3477804	0.554095214	0.015410938	0.083158138		CD58
1	116514535	116571039	- 1783		
protein_coding	CD58 molecule	[Source:HGNC Symbol;Acc:HGNC:1688]			
-	772 658	570 376	540 541		
23.67885346	16.27078508	14.80900802	10.19618527		
13.19778394	14.16419698				
ENSG00000227120	0 0	0 6.027469332	15.53561792		
1.962431039	0	7.841839429	-5.392678805		
0.015422672	1 AC009238.1	2	95436133		
95436556	+ 424	processed_pseudogene	pseudogene		
similar to part of Cdon homolog (mouse) (CDON)	-	0	0		

0	6	17	2	0	0	0
0.684205578	1.747196144	0.22019638				
ENSG00000113732	1609.333691	1197.620874		1021.799345		
1752.988997	1864.27415	1567.9824		1276.251303		
1728.415182	-0.438387117	0.01543582		0.083263014		
ATP6V0E1	5	172983757		173035445	+	1623
protein_coding	ATPase H+ transporting V0 subunit e1					
[Source:HGNC Symbol;Acc:HGNC:863]		-		1391	1292	1045
1745	2040	1598	46.87090325	35.09764297		
29.82635801	51.98500953	54.77346876		45.96256859		
ENSG00000272733	3.470885027	1.853902282		0	9.041203998	
19.19105743	20.60552591	1.774929103		16.27926244		
-3.227324453	0.015437114	1		AP000345.2		22
23580880	23583859	-		1081	lincRNA novel	
transcript	-	3	2	0	9	21
0.151771516	0.081571465	0		0.402548332		21
0.84654919	0.906858727					
ENSG00000134343	17.35442514	18.53902282		3.911193665		
41.1877071	63.05633154	32.38011214		13.26821387		
45.5413836	-1.782937704	0.015441686		0.083265272		AN03
11	26309599	26663288		+	7700	
protein_coding	anoctamin 3 [Source:HGNC Symbol;Acc:HGNC:14004] -					
15	20	4	41	69	33	0.10653572
0.114517861	0.024064216	0.257450861		0.390496336		
0.20006414						
ENSG00000126698	4198.613921	3887.633085		3960.083585		
3238.760188	3519.274388	2950.515067		4015.44353		
3236.183214	0.311094192	0.01551686		0.083641129		DNAJC8
1	28199456	28233025		-	2888	
protein_coding	DnaJ heat shock protein family (Hsp40) member C8					
[Source:HGNC Symbol;Acc:HGNC:15470]		-		3629	4194	4050
3224	3851	3007	68.72021223	64.02730103		
64.96213506	53.97579662	58.10786615		48.60514858		
ENSG00000100099	1217.123683	1287.535135		1310.249878		
1683.6731	1694.296213	1475.748141		1271.636232		
1617.905818	-0.34727731	0.015536371		0.083696744		HPS4
22	26443423	26483837		-	10782	
protein_coding	"HPS4, biogenesis of lysosomal organelles complex 3 subunit 2 [Source:HGNC Symbol;Acc:HGNC:15844]" -					
1340	1676	1854	1504	5.335942304	5.679850127	
5.75715506	7.515811916	7.493228911		6.511702408		
ENSG00000109519	990.3591944	1027.061864		978.7762146		
1176.361098	1281.231548	1405.100624		998.7324243		
1287.564423	-0.366427738	0.015538128		0.083696744		GRPEL1
4	7058906	7068197	-	4177	protein_coding	"GrpE
like 1, mitochondrial	[Source:HGNC Symbol;Acc:HGNC:19696]" -					
856	1108	1001	1171	1402	1432	11.20737754
11.69524282	11.10125447	13.5548163		14.62655795		
16.00385392						
ENSG00000099331	4240.264541	4178.695743		4942.770994		

5503.0795	5323.233786	5674.369349	4453.910426		
5500.227545	-0.304350836	0.015553444	0.083749738	MY09B	
19	17075781	17214537	+ 9948		
protein_coding	myosin IXB [Source:HGNC Symbol;Acc:HGNC:7609]			-	
3665	4508	5055	5478	5825	5783
19.97938376	23.5389908	26.62486828	20.14804514	25.51636176	
27.13710103					
ENSG00000104774	536.8302175	624.7650689	840.9066379		
368.6802075	348.1806133	599.5226824	667.5006415		
438.7945011	0.605977469	0.015569557	0.083806977	MAN2B1	
19	12646511	12666742	- 5374		
protein_coding	mannosidase alpha class 2B member 1 [Source:HGNC Symbol;Acc:HGNC:6826]			-	
611	4.721880927	5.529631525	7.413157802	381	
3.301943355	3.089483722	5.307494881			
ENSG00000152684	880.4478352	803.6666391	612.1018085		
959.372202	1152.377305	1013.595632	765.4054276		
1041.781713	-0.445545875	0.015609969	0.083994932	PELO	
5	52787940	52804046	+ 4349		
protein_coding	pelota mRNA surveillance and ribosome rescue factor [Source:HGNC Symbol;Acc:HGNC:8829]			-	
955	1261	1033	9.569515756	8.789489421	626
6.667873951	10.61732669	12.63526273	11.08809529		
ENSG00000175054	1896.260186	1657.38864	1686.702268		
1507.871911	1221.830656	1347.208908	1746.783698		
1358.970492	0.362084948	0.015675806	0.084319512	ATR	
3	142449235	142578826	- 12496		
protein_coding	ATR serine/threonine kinase [Source:HGNC Symbol;Acc:HGNC:882]			-	
1373	7.173030043	6.308563166	6.394705357	1337	
5.807789834	4.662501542	5.129151848			
ENSG00000262406	0	0	1.955596832	12.05493866	
5.483159264	19.62431039	0.651865611			
12.38746944	-4.21874501	0.015700848	1	MMP12	11
102862736	102875034	-	1874	protein_coding	
matrix metalloproteinase 12 [Source:HGNC Symbol;Acc:HGNC:7158]					
-	0	0	2	12	6
0	0.049438224	0.3096085	0.139521219	20	0
0.498203122					
ENSG00000112739	5429.621144	5313.283939	5143.219669		
4520.601999	3993.567664	4461.586967	5295.374917		
4325.25221	0.2919764	0.015754138	0.084674487	PRPF4B	
6	4021267	4064983	+ 7859	protein_coding	pre-
mRNA processing factor 4B [Source:HGNC Symbol;Acc:HGNC:17346]					
4693	5732	5260	4500	4370	4547
32.15680195	31.00422723	27.68512199	32.65712723	24.23107858	
27.00870126					
ENSG00000119927	948.7085741	751.7573752	876.1073809		
664.0262048	666.2038506	591.6729582	858.8577767		
640.6343379	0.42221437	0.015759804	0.084674487	GPAM	

10	112149864	112215377	-	9808	
protein_coding	"glycerol-3-phosphate acyltransferase, mitochondrial [Source:HGNC Symbol;Acc:HGNC:24865]"				
			-	820	811 896
661	729	603	4.572230411	3.645644821	
4.231847494	3.258533715	3.238960628	2.870006569		
ENSG00000103512	1500.579293	1646.265226	2414.18429		
1447.597218	1209.950478	1408.04427	1853.67627		
1355.197322	0.452301196	0.015760741	0.084674487		NOM01
16	14833681	14896160	+	5819	
protein_coding	NODAL modulator 1 [Source:HGNC Symbol;Acc:HGNC:30060]				
-	1297	1776	2469	1441	1324 1435
12.18951235	13.4563899	19.65509687	11.97338204		
9.915125729	11.51196816				
ENSG00000013441	1187.042679	823.1326131	715.7484406		
637.907171	634.2187549	660.3580446	908.6412443		
644.1613235	0.495262192	0.015763956	0.084674487		CLK1
2	200853009	200864744	-	5170	
protein_coding	CDC like kinase 1 [Source:HGNC Symbol;Acc:HGNC:2068]				
-	1026	888	732	635	694 673
10.85304317	7.572798144	6.558778944	5.938604441		
5.849618256	6.076738629				
ENSG00000117758	2264.173999	1989.237148	1483.320197		
2407.973998	3126.314641	2244.039893	1912.243782		
2592.776177	-0.439675508	0.01581731	0.084931232		STX12
1	27773183	27824452	+	3846	
protein_coding	syntaxin 12 [Source:HGNC Symbol;Acc:HGNC:11430]				-
1957	2146	1517	2397	3421	2287 27.82763245
24.6010926	18.27169161	30.13422111	38.76166216		
27.75894271					
ENSG00000047634	686.0782737	564.5132448	576.9010655		
427.9503226	458.7576585	446.4530614	609.1641947		
444.3870141	0.454066968	0.015882213	0.085249786		SCML1
X	17737449	17754988	+	5497	
protein_coding	Scm polycomb group protein like 1 [Source:HGNC Symbol;Acc:HGNC:10580]				-
455	5.899614973	4.884560731	4.971972644		502
3.747011954	3.979573937	3.863951758			
ENSG00000111358	1451.986903	1322.759278	1366.962186		
1000.559909	1143.238707	1093.074089	1380.569456		
1078.957568	0.35520913	0.015961541	0.085645519		GTF2H3
12	123633739	123662606	+	3996	
protein_coding	general transcription factor IIH subunit 3 [Source:HGNC Symbol;Acc:HGNC:4657]				
996	1251	1114	-	1255	1427 1398
16.20631021	12.05133268	13.64238897	13.01384852		
ENSG00000178965	42.807582	52.83621503	15.64477466		
4.018312888	8.224738897	15.69944831	37.09619056		
9.314166699	1.99310199	0.0159674	0.085646891		ERICH3
1	74568111	74673738	-	8779	
protein_coding	glutamate rich 3 [Source:HGNC Symbol;Acc:HGNC:25346]				

-	37	57	16	4	9	16	
0.230489628	0.286262042		0.084426229		0.022030084		
0.044674125	0.085078724						
ENSG00000156011	2805.632064		2041.146412		2372.138958		
2110.618844	1809.442557		1517.940409		2406.305811		
1812.66727	0.408394128		0.015992898		0.085725373		PSD3
8	18527301		19084730		-	15213	
protein_coding	pleckstrin and Sec7 domain containing 3 [Source:HGNC						
Symbol;Acc:HGNC:19093]	-		2425	2202	2426	2101	1980
1547	8.717492661		6.381700337		7.387174993		
6.677477043	5.671643473		4.747024621				
ENSG00000158615	2634.401736		2547.261735		2353.560788		
3357.300418	3472.667534		2722.873067		2511.741419		
3184.28034	-0.342434757		0.015993247		0.085725373		
PPP1R15B	1	204403387		204411791	-		5227
protein_coding	protein phosphatase 1 regulatory subunit 15B						
[Source:HGNC Symbol;Acc:HGNC:14951]	-				2277	2748	2407
3342	3800	2775	23.82348231		23.17918631		
21.33172842	30.91399711		31.68032982		24.78315101		
ENSG00000101158	3429.234407		3712.439319		3629.587721		
2775.649627	2933.490207		3052.561481		3590.420482		
2920.567105	0.298001224		0.016007813		0.085773373		NELFCD
20	58981208		58995133		+	6298	
protein_coding	negative elongation factor complex member C/D						
[Source:HGNC Symbol;Acc:HGNC:15934]	-				2964	4005	3712
2763	3210	3111	25.7377309		28.03714722		
27.30283642	21.21189385		22.21063493		23.05915511		
ENSG00000185122	2555.728342		2865.205976		2830.726415		
3515.019199	3189.370972		3515.695206		2750.553578		
3406.695126	-0.308372667		0.016043144		0.085932568		HSF1
8	144291591		144314722		+	5307	
protein_coding	heat shock transcription factor 1 [Source:HGNC						
Symbol;Acc:HGNC:5224]	HSF		2209	3091	2895	3499	3490
3583	22.76362072		25.67934106		25.26980766		
31.87836738	28.65727802		31.51691906				
ENSG00000110841	5493.254036		4025.748805		4325.780193		
4040.413609	3436.113139		3234.086352		4614.927678		
3570.204367	0.370096922		0.016065417		0.08599705		
PPFIBP1 12	27523431		27695564		+	11690	
protein_coding	PPFIA binding protein 1 [Source:HGNC						
Symbol;Acc:HGNC:9249]	-		4748	4343	4424	4022	3760
3296	22.21216607		16.3798257		17.5308536		
16.63522853	14.01625311		13.16190427				
ENSG00000271122	923.2554172		891.7269975		885.885365		
1240.654104	1164.257484		1076.393425		900.2892599		
1160.435004	-0.366330122		0.016066434		0.08599705		
AC018647.2	7	35695214		35699413	+		4200
antisense	uncharacterized LOC101930085 [Source:NCBI						
gene;Acc:101930085]	-		798	962	906	1235	1274
1097	10.39078392		10.09856673		9.992665805		

14.21735749	13.2183953	12.19279784				
ENSG00000186501	1239.105955	1497.026092	1378.695767			
1689.700569	1646.775499	1956.543746	1371.609271			
1764.339938	-0.362733905	0.016081819	0.086049269			
TMEM222 1	27322145	27336400	+	4476		
protein_coding	transmembrane protein 222 [Source:HGNC					
Symbol;Acc:HGNC:25363]	-	1071 1615	1410 1682	1802		
1994	13.08561401	15.9080302	14.5925601			
18.16925542	17.54378541	20.7960624				
ENSG00000133028	2699.191589	2493.498569	2496.319356			
3177.480916	3310.000476	3002.51949	2563.003172			
3163.333627	-0.303827686	0.016095292	0.086091226	SC01		
17	10672474	10698375	-	10325		
protein_coding	"SC01, cytochrome c oxidase assembly protein					
[Source:HGNC	Symbol;Acc:HGNC:10603]"	-	2333 2690	2553		
3163	3622 3060	12.35718052	11.48672378			
11.45415907	14.81188556	15.28681407	13.83494389			
ENSG00000108106	4089.859524	5768.416949	6616.761882			
4295.576477	4079.470493	4143.673139	5491.679452			
4172.906703	0.396423814	0.016101117	0.086092262	UBE2S		
19	55399745	55407777	-	2788		
protein_coding	ubiquitin conjugating enzyme E2 S [Source:HGNC					
Symbol;Acc:HGNC:17895]	-	3535 6223	6767 4276	4464		
4223	69.34120132	98.4103983	112.4361232			
74.15597402	69.77342055	70.70894343				
ENSG00000187624	47.4354287	42.63975248	29.33395248			
68.3113191	95.95528713	93.21547435	39.80304456			
85.82736019	-1.111314331	0.016111509	0.086117706			
C17orf97	17 410327	431062 +	2710	protein_coding		
	chromosome 17 open reading frame 97 [Source:HGNC					
Symbol;Acc:HGNC:33800]	-	41 46	30 68	105		
95	0.827388116	0.748380562	0.512807561			
1.213223568	1.688412683	1.636440994				
ENSG00000125266	349.4024261	426.3975248	265.9611692			
532.4264577	562.9376845	439.5845527	347.2537067			
511.649565	-0.5589363	0.016134327	0.086209527	EFNB2		
13	106489731	106535662	-	5019		
protein_coding	ephrin B2 [Source:HGNC					
Symbol;Acc:HGNC:3227]	-	302 460 272 530 616 448	3.290670971			
302	460 272 530 616 448	4.040867349 2.510464961 5.105754049	5.348378253			
4.040867349	2.510464961	5.105754049	5.348378253			
4.166840284						
ENSG00000182359	98.34174244	78.79084697	50.84551764			
149.6821551	140.7344211	133.4453106	75.99270235			
141.2872956	-0.897712821	0.016150446	0.086265501	KBTBD3		
11	106051098	106077765	-	5516		
protein_coding	kelch repeat and BTB domain containing 3 [Source:HGNC					
Symbol;Acc:HGNC:22934]	-	85 85	52 149	154		
136	0.842731798	0.679404824	0.436698341			
1.306060297	1.216620307	1.150961209				
ENSG00000266852	9.255693406	5.561706845	6.844588913	0		

0	0	7.220663055	0	5.343463753		
0.016216683	1	MIR4482	10	104268336	104268405	
-	70	miRNA	microRNA	4482	[Source:HGNC	
Symbol;Acc:HGNC:41792]	-	8	6	7	0	0
0	6.250095592	3.779089421	4.632361631	0		
0	0					
ENSG00000183853	4464.715107	4932.30702	6453.469547			
4546.721033	3670.061268	3959.204621	5283.497225			
4058.662307	0.380672147	0.016219496	0.086604065			
KIRREL1	1	157993273	158100262	+	7872	
protein_coding	kirre like nephrin family	adhesion molecule 1				
[Source:HGNC	Symbol;Acc:HGNC:15734]	-	3859	5321	6600	
4526	4016	4035	26.80923403	29.801775		
38.83839782	27.79909647	22.23142066	23.92789474			
ENSG00000099804	932.5111106	1608.260229	1363.050992			
1554.082509	1843.255373	2015.416677	1301.274111			
1804.25152	-0.470687372	0.016225712	0.086607002			CDC34
19	531712	542092	+	1942	protein_coding	cell
division cycle	34	[Source:HGNC	Symbol;Acc:HGNC:1734]	-		806
1735	1394	1547	2017	2054	22.69763088	
39.38983953	33.25186464	38.51609991	45.26007511			
49.37387913						
ENSG00000198783	386.4251997	494.0649581	529.9667416			
608.7744025	629.6494555	728.0619154	470.1522998			
655.4952578	-0.47821898	0.016282273	0.08687857			ZNF830
17	34961530	34963775	+	2246		
protein_coding	zinc finger protein	830	[Source:HGNC			
Symbol;Acc:HGNC:28291]	-	334	533	542	606	689
742	8.132637742	10.46288411	11.17871774			
13.04560092	13.3680502	15.4219819				
ENSG00000284490	0	0	0.977798416	15.06867333		
5.483159264	7.849724156	0.325932805				
9.467185584	-4.699787799	0.016286924	1	AC011471.4		
19	6199405	6205121	+	216	unprocessed_pseudogene	
	acyl-CoA synthetase	bubblegum family	member 2	(ACSBG2)		
pseudogene	-	0	0	1	15	6
0	0	0.214461187	3.35767552	1.21047576		
1.728949354						
ENSG00000104427	698.8048521	420.8358179	419.4755205			
290.3231062	368.2855306	357.1624491	513.0387302			
338.5903619	0.597666978	0.016298688	0.086893622			
ZC2HC1A	8	78666047	78719765	+	4181	
protein_coding	zinc finger	C2HC-type	containing 1A	[Source:HGNC		
Symbol;Acc:HGNC:24277]	-	604	454	429	289	403
364	7.900443723	4.78750944	4.753128773			
3.342095777	4.20033062	4.064126824				
ENSG00000121552	17.35442514	38.00499677	13.68917783			
78.35710132	46.60685375	62.79779325	23.01619991			
62.58724944	-1.43659458	0.016300583	0.086893622			CSTA
3	122325244	122341972	+	1373		

protein_coding	cystatin A [Source:HGNC	Symbol;Acc:HGNC:2481]	-					
15	41	14	78	51	64	0.59746908		
1.316580073	0.472345687	2.746788889	1.618669698					
2.175982872								
ENSG00000165501	474.354287	329.9946061	517.2553621					
206.9431137	338.1281546	308.1016731	440.5347518					
284.3909805	0.630145212	0.016302146	0.086893622			LRR1		
14	49598697	49614672	+	2359				
protein_coding	leucine rich repeat protein 1 [Source:HGNC	Symbol;Acc:HGNC:19742]	-	410	356	529	206	370
314	9.504967332	6.653589683	10.38795805					
4.222216475	6.8349034	6.213663681						
ENSG00000278356	4.627846703	4.634755704	12.71137941			0		
0	0	7.324660606	0	5.366817295				
0.016315998	1	AC005911.1	12	2885819	2886329	+		
456	sense_intronic	novel transcript	-			4		
5	13	0	0	0	0.479722249			
0.483436147	1.320629412	0	0	0				
ENSG00000167207	4.627846703	4.634755704	12.71137941			0		
0	0	7.324660606	0	5.366817295				
0.016315998	1	NOD2	16	50693588	50734041			
+	6873	protein_coding	nucleotide binding					
oligomerization	domain containing 2 [Source:HGNC	Symbol;Acc:HGNC:5331]	-	4	5	13	0	0
0	0.031827928	0.032074332	0.087619236			0		
0	0							
ENSG00000128596	92.55693406	61.1787753	106.5800274					
34.15565955	24.67421669	54.94806909	86.77191224					
37.92598178	1.194631259	0.016332102	0.087022949					
CCDC136	7 128790757	128822132	+	6188				
protein_coding	coiled-coil domain containing 136 [Source:HGNC	Symbol;Acc:HGNC:22225]	-	80	66	109	34	27
56	0.707024388	0.470248684	0.815978374					
0.265662239	0.190139373	0.422458213						
ENSG00000163877	926.7263022	908.412118	973.8872225					
1237.64037	1231.883115	1131.341494	936.3418809					
1200.288326	-0.358290838	0.016350549	0.087090883				SNIP1	
1	37534449	37554344	-	5769				
protein_coding	Smad nuclear interacting protein 1 [Source:HGNC	Symbol;Acc:HGNC:30587]	-	801	980	996	1232	1348
1153	7.593232359	7.489615019	7.997629025					
10.325507	10.18234836	9.329853066						
ENSG00000177731	4696.107442	4400.237066	4971.127148					
4230.278893	2996.546538	3758.05544	4689.157218					
3661.626957	0.356952373	0.01635834	0.087102035				FLII	
17	18244836	18258916	-	6465				
protein_coding	"FLII, actin remodeling protein [Source:HGNC	Symbol;Acc:HGNC:3750]"	-	4059	4747	5084	4211	3279
3830	34.33564696	32.37312771	36.42834731					
31.49328249	22.10199545	27.6551667						

ENSG00000165312	236.0201818	342.044971	304.0953074	
361.6481599	478.8625758	467.0585873	294.0534867	
435.856441	-0.566329086	0.016367123	0.087109621	OTUD1
10	23439458	23442390	+ 2933	
protein_coding	OTU deubiquitinase 1 [Source:HGNC			
Symbol;Acc:HGNC:27346]	-	204 369	311 360	524
476	3.803757461	5.546873494	4.911914311	
5.934602761	7.785344266	7.576016739		
ENSG00000078304	2762.824482	2563.946856	2212.757816	
1965.95958	2153.967731	1785.812245	2513.176384	
1968.579852	0.352049228	0.016375543	0.087109621	
PPP2R5C 14	101761798	101927989	+ 14289	
protein_coding	protein phosphatase 2 regulatory subunit B'gamma			
[Source:HGNC Symbol;Acc:HGNC:9311]	-	2388 2766		2263
1957	2357 1820	9.13960021	8.53462213	
7.33643668	6.622015698	7.188136971	5.945872437	
ENSG00000130818	325.1062309	310.5286322	335.3848567	
552.5180221	438.6527412	401.3171475	323.6732399	
464.1626369	-0.519963375	0.016376859	0.087109621	ZNF426
19	9523224 9538645	- 7545	protein_coding	zinc
finger protein 426	[Source:HGNC Symbol;Acc:HGNC:20725] zf-C2H2 281			
335	343 550	480 409	2.036769057	
1.957580007	2.105897998	3.524558001	2.772302337	
2.530521897				
ENSG00000123178	959.1212292	846.3063916	792.9945155	
460.0968257	621.4247166	760.4420276	866.1407121	
613.9878566	0.495853586	0.016438056	0.087369389	SPRYD7
13	49912706	49936490	- 3340	
protein_coding	SPRY domain containing 7 [Source:HGNC			
Symbol;Acc:HGNC:14297]	-	829 913	811 458	680
775	13.57384159	12.05197629	11.24803977	
6.630102273	8.87199 10.83181594			
ENSG00000147010	2117.239867	1930.839226	1981.019591	
1650.522019	1562.70039	1617.043176	2009.699561	
1610.088528	0.319682585	0.016442614	0.087369389	
SH3KBP1 X	19533975	19887601	- 5780	
protein_coding	SH3 domain containing kinase binding protein 1			
[Source:HGNC Symbol;Acc:HGNC:13867]	-	1830 2083		2026
1643	1710 1648	17.31481932	15.88895699	
16.23730911	13.74393022	12.89219512	13.30991876	
ENSG00000172461	53.22023708	51.90926389	92.89084954	
35.16023777	25.58807657	17.66187935	66.0067835	
26.13673123	1.338074172	0.016442842	0.087369389	FUT9
6	96015984	96215612	+ 13719	
protein_coding	fucosyltransferase 9 [Source:HGNC			
Symbol;Acc:HGNC:4020]	-	46 56	95 35	28
18	0.183370761	0.179969756	0.320777283	
0.123352173	0.088939395	0.061248589		
ENSG00000154654	263.7872621	188.1710816	263.0277739	
187.8561275	105.0938859	131.4828796	238.3287059	

141.477631	0.752692091	0.016460064	0.087430505	NCAM2
21	20998315	21543329	+ 8380	
protein_coding	neural cell	adhesion molecule 2	[Source:HGNC	
Symbol;Acc:HGNC:7657]	-	228 203	269 187	115
134	1.487940418	1.068036211	1.486999139	
1.078943752	0.598015471	0.746460473		
ENSG00000089597	6527.577774	7086.541472	12737.77997	
5119.330619	4115.111028	5536.017961	8783.966405	
4923.486536	0.835227397	0.01647103	0.087450348	GANAB
11	62624826	62646726	- 5030	
protein_coding	glucosidase II	alpha subunit	[Source:HGNC	
Symbol;Acc:HGNC:4138]	-	5642 7645	13027 5096	4503
5642	61.34226524	67.01059323	119.9717196	
48.98494793	39.01149194	52.36138586		
ENSG00000165029	483.6099804	510.7500786	254.2275882	
743.3878843	705.4998254	491.5889753	416.1958824	
646.8255616	-0.636542665	0.01647524	0.087450348	ABCA1
9	104781002	104928237	- 11350	
protein_coding	ATP binding	cassette subfamily A	member 1 [Source:HGNC	
Symbol;Acc:HGNC:29]	-	418 551	260 740	772
501	2.014072654	2.140374141	1.061157731	
3.152369193	2.964012539	2.060572503		
ENSG00000172137	69.41770054	179.8285213	34.22294457	
262.1949159	591.2673407	204.092828	94.48972214	
352.5183616	-1.898584256	0.016486421	0.087479318	CALB2
16	71358713	71390438	+ 1703	
protein_coding	calbindin 2	[Source:HGNC	Symbol;Acc:HGNC:1435]	-
60	194 35	261 647	208	1.926776386
5.022512658	0.952041439	7.410151307	16.55572601	
5.701573442				
ENSG00000146374	42.807582	60.25182416	33.24514615	
84.38457065	97.78300688	102.046414	45.43485077	
94.73799719	-1.058368128	0.01655875	0.08783262	RSP03
6	127118604	127197765	+ 3179	
protein_coding	R-spondin 3	[Source:HGNC	Symbol;Acc:HGNC:20866]	-
37	65 34	84 107	104	0.636510993
0.901481434	0.495439747	1.277585502	1.466735649	
1.527175145				
ENSG00000165609	1843.039949	1711.151806	1676.924284	
1471.707095	1333.321561	1344.265262	1743.705346	
1383.097973	0.334129914	0.016574408	0.087885182	NUDT5
10	12165325	12196144	- 4969	
protein_coding	nudix hydrolase 5	[Source:HGNC	Symbol;Acc:HGNC:8052]	
-	1593 1846	1715 1465	1459 1370	
17.5324049	16.3793498	15.98812678	14.25508609	
12.7951356	12.87056482			
ENSG00000165512	1034.323738	735.0722547	616.0130022	
481.1929683	664.3761309	491.5889753	795.1363317	
545.7193582	0.541677254	0.016622806	0.088085468	ZNF22
10	45000475	45005326	+ 2551	

protein_coding	zinc finger protein 22 [Source:HGNC						
Symbol;Acc:HGNC:13012]	zf-C2H2	894	793	630	479	727	
501	19.16557145	13.70555689	11.44017181				
9.078754476	12.41888341	9.167972525					
ENSG00000110090	1627.845078	1674.07376	1623.145371				
1383.304212	1129.530808	1344.265262	1641.68807				
1285.700094	0.352910268	0.016623705	0.088085468			CPT1A	
11	68754620	68844410	-	6565			
protein_coding	carnitine palmitoyltransferase 1A [Source:HGNC						
Symbol;Acc:HGNC:2328]	-	1407	1806	1660	1377	1236	
1370	11.7207143	12.12877595	11.71320687				
10.1414587	8.204315218	9.74163543					
ENSG00000124593	4.627846703	25.95463194	35.20074298				
51.23348932	42.95141424	112.8397847	21.92774054				
69.00822943	-1.644491891	0.01665074	0.088198152				
AL365205.1	6	41780349	41790141	+		4479	
protein_coding	novel transcript			-	4	28	
36	51	47	115	0.048839774	0.275620126		
0.372326454	0.55054184	0.457272826	1.198568373				
ENSG00000202111	49.74935206	74.15609127	59.64570339				
84.38457065	116.0602044	164.8442073	61.18371557				
121.7629941	-0.990283936	0.016657285	0.088202255				
VTRNA1-2	5	140718925	140719013	+		89	
misc_RNA	vault RNA 1-2 [Source:HGNC						
Symbol;Acc:HGNC:12655]	-	43	80	61	84	127	
168	26.42245468	39.6309003	31.74989433				
45.63420572	62.18309184	88.11813786					
ENSG00000156256	2301.196773	1809.408627	1996.664366				
1497.826129	1754.610965	1489.485159	2035.756589				
1580.640751	0.364488138	0.016745826	0.08864039			USP16	
21	29024629	29054488	+	5694			
protein_coding	ubiquitin specific peptidase 16 [Source:HGNC						
Symbol;Acc:HGNC:12614]	-	1989	1952	2042	1491	1920	
1518	19.10345999	15.11458783	16.61271944				
12.66080725	14.69407877	12.44515599					
ENSG00000111669	14887.78284	16665.65456	17833.08751				
18508.34916	19921.23147	22760.27519	16462.17497				
20396.61861	-0.309133269	0.016778307	0.088751554			TPI1	
12	6867119	6870948	+	2700	protein_coding		
triosephosphate isomerase 1 [Source:HGNC	Symbol;Acc:HGNC:12009]	-					
12868	17979	18238	18424	21799	23196	260.6405604	
293.5862598	312.9074497	329.9296735	351.8288145				
401.0470921							
ENSG00000139629	34.70885027	15.75816939	13.68917783				
64.29300621	48.4345735	59.85414669	21.38539916				
57.52724213	-1.437334576	0.016778439	0.088751554			GALNT6	
12	51351247	51392867	-	7347			
protein_coding	polypeptide N-acetylgalactosaminyltransferase 6						
[Source:HGNC	Symbol;Acc:HGNC:4128]	-		30	17	14	
64	53	61	0.223308846	0.102017068			

0.088271489	0.421183307	0.314357935	0.387583992	
ENSG00000233223	48.59239038	52.83621503	69.42368755	
103.4715569	73.10879019	181.5248711	56.95076432	
119.3684061	-1.065693289	0.016793416	0.088800051	
AC016876.1	17	7581964	7584072	- 1058 antisense
	uncharacterized LOC100996842 [Source:NCBI gene;Acc:100996842]			
-	42	57	71	103 80 185
2.170992562	2.375325581	3.108673685	4.707092941	
3.295056889	8.162667318			
ENSG00000171603	2623.989081	2603.805755	4023.640483	
2303.497863	1665.052697	2667.924997	3083.811773	
2212.158519	0.479492756	0.016818645	0.088894713	CLSTN1
1	9729026	9824526	- 5683	protein_coding
calsyntenin 1 [Source:HGNC Symbol;Acc:HGNC:17447]				- 2268
2809	4115	2293	1822	2719 21.82529422
21.7925495	33.54243905	19.50866788	13.9710586	
22.33456958				
ENSG00000181638	230.2353735	210.417909	316.8066868	
443.0189959	280.5549824	463.1337252	252.4866564	
395.5692345	-0.646945699	0.016822948	0.088894713	ZFP41
8	143246821	143262705	+ 6910	
protein_coding ZFP41 zinc finger protein [Source:HGNC				
Symbol;Acc:HGNC:26786] zf-C2H2				199 227 324 441 307
472	1.574960774	1.448377494	2.172048001	
3.085757254	1.936060506	3.18867302		
ENSG00000198598	696.4909288	939.0015057	852.6402189	
1027.683521	1146.894146	1128.397847	829.3775511	
1100.991838	-0.407827702	0.01685334	0.089024535	MMP17
12	131828393	131851783	+ 4003	
protein_coding matrix metalloproteinase 17 [Source:HGNC				
Symbol;Acc:HGNC:7163]				- 602 1013 872 1023 1255
1150	8.224426313	11.15726667	10.09098012	
12.35638012	13.66207715	13.41091118		
ENSG00000130559	1145.392059	1344.079154	1481.3646	
2058.380777	1755.524825	1462.011124	1323.611938	
1758.638908	-0.409502119	0.016865547	0.089058242	
CAMSAP1 9	135808487	135907228	- 8642	
protein_coding calmodulin regulated spectrin associated protein 1				
[Source:HGNC Symbol;Acc:HGNC:19946]				- 990 1450 1515
2049	1921	1490	6.264921669	7.397546406
8.12083762	11.46380824	9.686607457	8.048557337	
ENSG00000146731	13318.94281	11222.59746	11482.2868	
10263.77569	9732.607694	9442.236944	12007.94236	
9812.873444	0.291163053	0.016873913	0.089071653	CCT6A
7	56051630	56063989	+ 3901	
protein_coding chaperonin containing TCP1 subunit 6A [Source:HGNC				
Symbol;Acc:HGNC:1620]				- 11512 12107 11743 10217 10650
9623	161.3873696	136.8341662	139.4458412	
126.6335143	118.9685738	115.1544091		
ENSG00000141252	1174.316101	1280.119526	1260.382158	

1730.888277	1602.910225	1417.856426	1238.272595	
1583.884976	-0.35484732	0.016889628	0.089123832	VPS53
17	508668	721717	-	20899
protein_coding	"VPS53, GARP complex subunit [Source:HGNC			
Symbol;Acc:HGNC:25608]"	-	1015	1381	1289
1445	2.656043901	2.913413515	2.857129118	1754
3.986217468	3.657317641	3.227664436		
ENSG00000118412	1247.204686	994.6185741	1024.73274	
927.2256989	781.3501952	741.7989327	1088.852	
816.7916089	0.414309286	0.01692331	0.089228983	
CASP8AP2	6	89829894	89874436	+
protein_coding	caspase 8 associated protein 2 [Source:HGNC			
Symbol;Acc:HGNC:1510]"	-	1078	1073	1048
756	7.215032025	5.78973211	5.941396389	855
5.461698308	4.559838929	4.31909365		
ENSG00000102981	64.78985384	248.4229057	115.3802131	
287.3093715	231.206549	304.176811	142.8643242	
274.2309105	-0.936532686	0.016924667	0.089228983	PARD6A
16	67660946	67662778	+	1488
protein_coding	par-6 family cell polarity regulator alpha			
[Source:HGNC	Symbol;Acc:HGNC:15943]"			
286	253	310	2.058163199	7.940828577
3.673512584	9.293179343	7.409283078	9.725340116	
ENSG00000267100	584.2656462	641.4501895	667.8363182	
799.6442647	1019.867623	750.6298724	631.1840513	
856.7139201	-0.440653125	0.016927066	0.089228983	ILF3-
DT	19	10651862	10653844	-
lincRNA	ILF3 divergent tranacript [Source:HGNC			
Symbol;Acc:HGNC:27115]"	-	505	692	683
13.92718603	15.38570277	15.95513361	1116	765
24.52449527	18.00879925		19.40848204	
ENSG00000183508	38.1797353	75.08304241	30.3117509	
114.5219173	108.7493254	87.32818123	47.8581762	
103.5331413	-1.109242709	0.016947266	0.089304673	TENT5C
1	117605934	117628372	+	5751
protein_coding	terminal nucleotidyltransferase 5C [Source:HGNC			
Symbol;Acc:HGNC:24712]"	-	33	81	31
89	0.313808921	0.620977135	0.249701288	119
0.958435078	0.901700253	0.722424847		
ENSG00000189306	856.15164	969.5908933	804.7280965	
1051.793398	1346.115599	1088.168011	876.8235433	
1162.02567	-0.406290585	0.016966626	0.089375883	RRP7A
22	42509968	42519802	-	4082
protein_coding	ribosomal RNA processing 7 homolog A [Source:HGNC			
Symbol;Acc:HGNC:24286]"	-	740	1046	823
1109	9.914103126	11.29776774	9.339621809	1473
12.40151942	15.72491636	12.68249155		
ENSG00000157191	2035.095588	2259.906881	2379.961345	
2560.669888	2786.358766	3040.786895	2224.987938	
2795.938516	-0.329305238	0.016973054	0.089378947	NECAP2

1	16440672	16460078	+	5559		
protein_coding	NECAP endocytosis associated 2		[Source:HGNC			
Symbol;Acc:HGNC:25528]	-	1759 2438	2434	2549	3049	
3099	17.30469217	19.33619358	20.28272749			
22.17044335	23.9011803	26.02381351				
ENSG00000172331	516.0049074	474.5989841	372.5411966			
613.7972937	927.5677756	498.4574839	454.381696			
679.940851	-0.5824862	0.016997037	0.089423626		BPGM	
7	134646808	134679813	+	2539		
protein_coding	bisphosphoglycerate mutase		[Source:HGNC			
Symbol;Acc:HGNC:1093]	-	446 512	381	611	1015	
508	9.606537238	8.890807723	6.951279171			
11.63535734	17.42055308	9.340003678				
ENSG00000121774	6836.486542	7830.883238	8086.392902			
6112.858481	6191.400669	6311.178221	7584.58756			
6205.145791	0.289719447	0.016999808	0.089423626			
KHDRBS1 1	32013829	32060850	+	3588		
protein_coding	"KH RNA binding domain containing, signal transduction					
associated 1	[Source:HGNC Symbol;Acc:HGNC:18116]"		-	5909		
8448	8270 6085	6775 6432	90.06504459			
103.8091007	106.771546	81.99915267	82.28401277			
83.6834617						
ENSG00000100307	71.73162389	119.5766972	100.7132369			
157.7187809	168.1502174	182.5060866	97.34051931			
169.4583616	-0.79637902	0.01700266	0.089423626		CBX7	
22	39120167	39152674	-	7461		
protein_coding	chromobox 7		[Source:HGNC Symbol;Acc:HGNC:1557]		-	
62	129 103	157 184	186	0.454453406		
0.762301244	0.63950308	1.017428336	1.07468053			
1.163756019						
ENSG00000070610	836.4832915	792.5432254	1026.688337			
553.5226003	551.971366	794.7845708	885.2382846			
633.426179	0.483118717	0.017004938	0.089423626		GBA2	
9	35736866	35749228	-	4803		
protein_coding	glucosylceramidase beta 2		[Source:HGNC			
Symbol;Acc:HGNC:18986]	-	723 855	1050	551	604	
810	8.232285497	7.848514881	10.12696172			
5.546770903	5.480030173	7.872605115				
ENSG00000137868	17.35442514	13.90426711	92.89084954			
16.07325155	0	5.887293117	41.38318059	7.320181556		
2.507614557	0.01703263	0.089538449	STRA6 15			
74179466	74212267	-	7690	protein_coding		
stimulated by retinoic acid 6	[Source:HGNC					
Symbol;Acc:HGNC:30650]	-	15 15	95	16	0	
6	0.106674258	0.086000084	0.572268342			
0.100599277	0	0.0364226				
ENSG00000213672	734.6706641	892.6539486	949.4422621			
596.7194639	508.1060918	750.6298724	858.9222916			
618.4851427	0.474641776	0.017059915	0.089647209			
NCKIPSD 3	48673844	48686364	-	3431		

protein_coding	NCK interacting protein with SH3 domain [Source:HGNC					
Symbol;Acc:HGNC:15486]	-	635	963	971	594	556
765	10.1215662	12.37483814	13.10994796			
8.370799572	7.061755409	10.4084666				
ENSG00000197933	222.1366417	159.4355962	135.9139798			
107.4898698	92.29984762	98.12155195	172.4954059			
99.30375644	0.795063622	0.017071378	0.089647209			ZNF823
19	11721265	11739009	-	2459		
protein_coding	zinc finger protein 823 [Source:HGNC					
Symbol;Acc:HGNC:30936]	zf-C2H2	192	172	139	107	101
100	4.270093776	3.083925487	2.618537075			
2.103906646	1.78986981	1.898399047				
ENSG00000136451	2643.657429	2056.904582	2386.805934			
1725.865385	2026.027348	1784.83103	2362.455981			
1845.574588	0.355730824	0.017072263	0.089647209			VEZF1
17	57971547	57988259	-	4913		
protein_coding	vascular endothelial zinc finger 1 [Source:HGNC					
Symbol;Acc:HGNC:12949]	zf-C2H2	2285	2219	2441	1718	2217
1819	25.43514121	19.91335775	23.015662			
16.90743054	19.66425633	17.28351102				
ENSG00000160201	93.71389573	259.5463194	321.6956789			
93.42577465	70.36721056	165.8254228	224.985298			
109.8728027	1.036439021	0.017076776	0.089647209			U2AF1
21	43092956	43107587	-	11112		
protein_coding	U2 small nuclear RNA auxiliary factor 1 [Source:HGNC					
Symbol;Acc:HGNC:12453]	-	81	280	329	93	77
169	0.398646081	1.110963413	1.371532556			
0.404661542	0.301965335	0.709970833				
ENSG00000119242	673.3516953	717.460183	743.1267963			
1054.807133	950.4142725	824.2210364	711.3128915			
943.1474807	-0.406626455	0.017084123	0.08965499			CCDC92
12	123918660	123972831	-	8223		
protein_coding	coiled-coil domain containing 92 [Source:HGNC					
Symbol;Acc:HGNC:29563]	-	582	774	760	1050	1040
840	3.870681236	4.149966858	4.281399538			
6.173909019	5.511396382	4.768645427				
ENSG00000102144	35276.91845	38200.58347	30721.44844			
35275.76427	47563.66504	50908.4048	34732.98345			
44582.61137	-0.360179195	0.01709132	0.089661978			PGK1
X	77910739	78129296	+	5512		
protein_coding	phosphoglycerate kinase 1 [Source:HGNC					
Symbol;Acc:HGNC:8896]	-	30491	41211	31419	35115	52047
51883	302.5221455	329.6384794	264.0496555			
308.024088	411.4765507	439.4018762				
ENSG00000180104	1317.779349	1384.865004	1189.002874			
1613.352625	1538.026174	1827.023297	1297.215742			
1659.467365	-0.355209185	0.017098752	0.089668025			EXOC3
5	443158	471937	+	8182		
exocyst complex	component 3 [Source:HGNC					
Symbol;Acc:HGNC:30378]	-					
1139	1494	1216	1606	1683	1862	7.6130549

	8.050541262	6.884565807	9.49046042	8.963615905	
	10.62346612				
ENSG00000108848	3351.717975	3164.611195	3241.40175		
2753.548907	2270.027936	2776.83992	3252.576973		
2600.138921	0.323056525	0.017110016	0.089668025	LUC7L3	
17	50719544	50756213	+	8151	
protein_coding	LUC7 like 3 pre-mRNA splicing factor [Source:HGNC				
Symbol;Acc:HGNC:24309]	-	2897	3414	3315	2741
2830	19.43713785	18.46658467	18.83974826		2484
16.25920695	13.28003734	16.20770705			
ENSG00000144034	760.1238209	684.0899419	574.9454687		
513.3394715	519.0724104	430.753613	673.0530772		
487.7218316	0.463962677	0.017110069	0.089668025	TPRKB	
2	73729104	73737400	-	2047	
protein_coding	TP53RK binding protein [Source:HGNC				
Symbol;Acc:HGNC:24259]	-	657	738	588	511
439	17.55263167	15.89543718	13.30644181		568
12.06991673	12.09174809	10.01135158			
ENSG00000176222	91.39997238	76.93694469	58.66790497		
150.6867333	156.270039	109.8961382	75.66827401		
138.9509702	-0.879309695	0.017133039	0.089757633	ZNF404	
19	43872363	43901385	-	2479	
protein_coding	zinc finger protein 404 [Source:HGNC				
Symbol;Acc:HGNC:19417]	zf-C2H2	79	83	60	150
112	1.742790875	1.476167106	1.121184743		171
2.925606746	3.005925283	2.109053185			
ENSG00000213033	3.470885027	0	1.955596832	30.13734666	
1.827719755	22.56795695	1.808827286	18.17767445		
-3.361867058	0.01714867	1	AURKAP1	1	
220266706	220267917	-	1212		
transcribed_processed_pseudogene	aurora kinase A pseudogene 1				
[Source:HGNC	Symbol;Acc:HGNC:18611]	-	3	0	2
30	2	23	0.135367169	0	0.076441611
1.196795235	0.071909451	0.885872565			
ENSG00000088986	3584.267271	3204.470094	3100.598778		
2466.239535	2841.190359	2634.56367	3296.445381		
2647.331188	0.316082601	0.017180228	0.089958777	DYNLL1	
12	120469850	120498493	+	2957	
protein_coding	dynein light chain LC8-type 1 [Source:HGNC				
Symbol;Acc:HGNC:15476]	-	3098	3457	3171	2455
2685	57.2960657	51.54446224	49.67608635		3109
40.14222015	45.81714202	42.38761698			
ENSG00000108984	429.2327817	305.8938765	357.8742203		
265.2086506	181.8581156	267.8718368	364.3336262		
238.3128677	0.612058686	0.017183203	0.089958777	MAP2K6	
17	69414698	69553861	+	16655	
protein_coding	mitogen-activated protein kinase kinase 6 [Source:HGNC				
Symbol;Acc:HGNC:6846]	-	371	330	366	264
273	1.21821512	0.873581163	1.0179792		199
0.766408842	0.520675373	0.765180768			

ENSG00000142686	1014.65539	1053.016496	1114.690194		
1431.523966	1235.538554	1409.025486	1060.78736		
1358.696002	-0.356719595	0.017225958	0.090129036		
C1orf216	1	35713875	35719472	-	3629
	protein_coding	chromosome 1 open reading frame	216		
[Source:HGNC Symbol;Acc:HGNC:26800]	-	877	1136		1140
1425	1352	1436	13.21622239	13.80146922	
14.55192135	18.98580922	16.23485152	18.47198246		
ENSG00000163820	1634.786848	1406.184881	1318.072265		
2083.495232	1686.071474	1851.553685	1453.014664		
1873.706797	-0.367166015	0.017227516	0.090129036		FYC01
3	45917899	45995824	-	8895	
protein_coding	FYVE and coiled-coil domain containing 1	[Source:HGNC			
Symbol;Acc:HGNC:14673]	-	1413	1517	1348	2074
1887	8.687422077	7.519233757	7.020150061		1845
11.2736362	9.038763347	9.903118677			
ENSG00000222808	3.470885027	9.269511408	8.800185745		0
0	0	7.18019406	0	5.339576876	
0.017290836	1	RNU4-47P	17	77152561	
77152674	-	114	snRNA	"RNA, U4 small nuclear 47,	
pseudogene [Source:HGNC Symbol;Acc:HGNC:46983]"	-	3	10		
9	0	0	0	1.439166748	3.867489174
3.657127604	0	0	0		
ENSG00000250267	2.313923351	13.90426711	5.866790497		0
0	0	7.36166032	0	5.376905585	
0.01731411	1	AC021237.1	8	109298598	
109316513	+	1643	antisense	novel transcript	
-	2	15	6	0	0
0.066571316	0.402520176	0.169167193	0	0	0
ENSG00000178764	119.1670526	179.8285213	118.3136084		
290.3231062	212.9293514	194.2806729	139.1030608		
232.5110435	-0.73882781	0.017327478	0.090620992		ZHX2
8	122781394	122974512	+	4716	
protein_coding	zinc fingers and homeoboxes 2	[Source:HGNC			
Symbol;Acc:HGNC:18513]	Homeobox	103	194	121	289
233	198	1.194422954	1.813685126	1.188540622	
2.962956413	2.152983603	1.959915871			
ENSG00000163913	756.6529359	704.482867	999.3099813		
557.5409132	602.2336592	634.8464411	820.1485948		
598.2070045	0.455326225	0.017333668	0.090622359		IFT122
3	129440036	129520507	+	9636	
protein_coding	intraflagellar transport 122	[Source:HGNC			
Symbol;Acc:HGNC:13556]	-	654	760	1022	555
647	3.711723955	3.477368846	4.913110821		659
2.784821789	2.980212425	3.134393552			
ENSG00000162607	4338.606284	3436.207879	3747.901329		
2725.420716	3476.322974	2801.370308	3840.905164		
3001.037999	0.355634862	0.017351022	0.090635578		USP1
1	62436297	62451804	+	4263	
protein_coding	ubiquitin specific peptidase 1	[Source:HGNC			

Symbol;Acc:HGNC:12607]	-	3750	3707	3833	2713	3804
2855	48.10726287	38.339038		41.65104887		
30.77057966	38.88514953	31.26344381				
ENSG00000177303	399.1517781	634.0345803		809.6170886		
1106.040622	658.8929716	1044.013313		614.2678157		
936.3156356	-0.606796824	0.017352583		0.090635578		
CASKIN2 17	75500261	75515583		-	5823	
protein_coding	CASK interacting protein 2 [Source:HGNC					
Symbol;Acc:HGNC:18200]	-	345	684	828	1101	721
1064	3.240164188	5.178968501		6.586974808		
9.142011123	5.395691022	8.52983978				
ENSG00000132471	1910.143727	3134.948758		2730.013178		
3178.485494	3305.431177	3945.467604		2591.701888		
3476.461425	-0.423243785	0.017353983		0.090635578		WBP2
17	75845699	75856507		-	5399	
protein_coding	WW domain binding protein 2 [Source:HGNC					
Symbol;Acc:HGNC:12738]	-	1651	3382	2792	3164	3617
4021	16.72354944	27.61812773		23.95546152		
28.33507483	29.19401179	34.76696509				
ENSG00000152049	219.8227184	205.7831533		247.3829993		
133.6089035	175.4610965	87.32818123		224.3296236		
132.1327271	0.762556495	0.017373402		0.09070601		KCNE4
2	223051814	223198399		+	4124	
protein_coding	potassium voltage-gated channel subfamily E regulatory					
subunit 4 [Source:HGNC	Symbol;Acc:HGNC:6244]	-		190	222	
253	133	192	89	2.51958873	2.373385451	
2.841870739	1.559316236	2.028809033		1.007435814		
ENSG00000169914	603.9339947	663.6970168		576.9010655		
441.0098395	460.5853782	464.1149407		614.8440257		
455.2367195	0.433775348	0.017393787		0.090762213		OTUD3
1	19882513	19912945		+	6767	
protein_coding	OTU deubiquitinase 3 [Source:HGNC					
Symbol;Acc:HGNC:29038]	-	522	716	590	439	504
473	4.218606712	4.664990931		4.038855272		
3.136675273	3.245584777	3.262954367				
ENSG00000211584	297.3391507	322.578997		234.6716199		
469.1380297	356.4053522	428.791182		284.8632559		
418.1115213	-0.553275711	0.017401403		0.090762213		
SLC48A1 12	47753916	47782753		+	4921	
protein_coding	solute carrier family 48 member 1 [Source:HGNC					
Symbol;Acc:HGNC:26035]	-	257	348	240	467	390
437	2.856106983	3.117883164		2.259229408		
4.588436566	3.453582538	4.145473161				
ENSG00000163320	4073.66206	3330.535449		3589.497986		
2387.882434	3410.525063	2663.01892		3664.565165		
2820.475472	0.377359299	0.017401978		0.090762213		CGGBP1
3	88051944	88149885		-	6490	
protein_coding	CGG triplet repeat binding protein 1 [Source:HGNC					
Symbol;Acc:HGNC:1888]	-	3521	3593	3671	2377	3732
2714	29.66989716	24.40880278		26.20246464		

17.70866007	25.05852685	19.52140998			
ENSG00000106804	469.7264403	453.2791079	466.4098445		
327.4925004	367.3716707	295.3458714	463.1384642		
330.0700142	0.488175237	0.017408807	0.090766862	C5	
9	120952335	121050276	- 6533		
protein_coding	complement C5 [Source:HGNC Symbol;Acc:HGNC:1331]				
-	406 489	477 326	402 301		
3.398662879	3.300123243	3.382269246	2.412715745		
2.681464135	2.150799235				
ENSG00000109084	1759.738709	1698.17449	1893.017734		
1465.679626	1374.445256	1426.687365	1783.643644		
1422.270749	0.326703779	0.017429024	0.090841288	TMEM97	
17	28319095	28328685	+ 3034		
protein_coding	transmembrane protein 97 [Source:HGNC				
Symbol;Acc:HGNC:28106]	-	1521 1832	1936 1459	1504	
1454	27.41626886	26.62219443	29.5591698		
23.2509623	21.6018456	22.37148772			
ENSG00000237424	166.6024813	139.9696223	181.8705054		
276.2590111	238.517428	242.3602333	162.814203		
252.3788908	-0.632781504	0.017471373	0.091030976	FOXD2-	
AS1 1	47432133	47434641	- 2509		
lincRNA FOXD2 adjacent opposite strand RNA 1	[Source:HGNC				
Symbol;Acc:HGNC:44256]	-	144 151	186 275	261	
247	3.138748683	2.65344594	3.434114242		
5.299479897	4.533132818	4.595601132			
ENSG00000100897	802.9314029	824.0595642	1023.754942		
705.2139119	601.3197993	670.1701998	883.5819696		
658.9013037	0.423846383	0.017480544	0.091047725	DCAF11	
14	24114195	24125242	+ 6350		
protein_coding	DDB1 and CUL4 associated factor 11 [Source:HGNC				
Symbol;Acc:HGNC:20258]	-	694 889	1047 702	658	
683	5.976961493	6.172512721	7.637925398		
5.345207921	4.515551149	5.021032289			
ENSG00000276900	35.86581195	28.73548537	43.02313031		
57.26095866	134.337402	60.83536221	35.87480921		
84.14457428	-1.232050063	0.017489789	0.09106485		
AC023157.3	12 31729117	31731204	+ 2088		
antisense	"novel transcript, antisense to AMN1"				
31	31 44	57 147	62 0.811943692		
0.654583656	0.97616816	1.319913825	3.067929943		
1.38614043					
ENSG00000154144	901.2731454	1221.721604	1043.31091		
1606.320577	1420.13825	1202.970227	1055.43522		
1409.809684	-0.416924439	0.017522904	0.091206208	TBRG1	
11	124622836	124635398	+ 6627		
protein_coding	transforming growth factor beta regulator 1				
[Source:HGNC Symbol;Acc:HGNC:29551]	-		779 1318	1067	
1599	1554 1226	6.428582176	8.768643177		
7.458472703	11.66628844	10.21862923	8.636137243		
ENSG00000112837	139.9923628	26.88158308	92.89084954		

32.1465031	27.41579632	39.24862078	86.58826513		
32.9369734	1.391684086	0.017546275	0.091282661	TBX18	
6	84687351	84764519	-	8469	
protein_coding	T-box 18 [Source:HGNC Symbol;Acc:HGNC:11595]				T-box
121	29	95	32	30	40
	0.150973187	0.519629655	0.182691803	0.781354199	0.154364603
	0.220482383				
ENSG00000115053	17267.65301	18527.8994	19180.49373		
15998.91276	13305.79982	15613.10135	18325.34871		
14972.60464	0.291568568	0.017549535	0.091282661	NCL	
2	231453531	231483641	-	6929	
protein_coding	nucleolin [Source:HGNC Symbol;Acc:HGNC:7667]				-
14925	19988	19616	15926	14560	15912
	127.1840755	131.1421645	111.1315487	117.7981558	91.56919819
	107.2013476				
ENSG00000279894	23.13923351	0	3.911193665	0	0
0	9.01680906	0	5.659880302	0.01754971	
1	273965.1	X	103596608	103598904	
+	2297	TEC	TEC	-	20
0	0	0	0.476171845	0	0.08066803
0	0	0			
ENSG00000121690	305.4378824	305.8938765	234.6716199		
162.741672	201.049173	187.4121642	282.0011262		
183.7343364	0.617230452	0.017564785	0.091330909	DEPDC7	
11	33015864	33033582	+	3326	
protein_coding	DEP domain containing 7 [Source:HGNC				
Symbol;Acc:HGNC:29899]	-	264	330	240	162
191	4.340866151	4.37447212	3.342654214	220	
2.355016673	2.882431755	2.680755207			
ENSG00000130023	554.1846427	473.672033	371.5633981		
322.4696093	348.1806133	293.3834403	466.4733579		
321.3445543	0.536522778	0.017606585	0.091517123	ERMARD	
6	169751622	169781584	+	4251	
protein_coding	ER membrane associated RNA degradation [Source:HGNC				
Symbol;Acc:HGNC:21056]	-	479	511	380	321
299	6.162247271	5.299852136	4.140901952	381	
3.651027835	3.905642325	3.28341758			
ENSG00000108518	12487.08737	15318.79455	16131.71827		
10882.59588	11425.99005	12849.99844	14645.86673		
11719.52812	0.321650326	0.017624866	0.091581006	PFN1	
17	4945652	4949061	-	1987	
profilin 1 [Source:HGNC Symbol;Acc:HGNC:8881]	-			protein_coding	
16498	10833	12503	13096	297.0564746	366.6940299
384.6235641	263.6040585	274.2047425	307.6711927		
ENSG00000196422	307.7518057	450.4982545	746.0601915		
246.1216644	278.7272626	391.5049923	501.4367506		
305.4513064	0.716097533	0.017636615	0.09161092		
PPP1R26 9	135479079	135488893	+	5276	
protein_coding	protein phosphatase 1 regulatory subunit 26				
[Source:HGNC Symbol;Acc:HGNC:29089]	-		266	486	763

245	305	399	2.757220904	4.061303453	
6.699188637	2.245238672		2.519147809	3.530320582	
ENSG00000236719	32.39492692		6.488657986	4.888992081	0
0	2.943646558		14.590859	0.981215519	
3.898225447	0.017646915		1	OVAAL	1 180552749
180566520	+		1604	lincRNA ovarian adenocarcinoma	
amplified long non-coding RNA [Source:HGNC Symbol;Acc:HGNC:49422]					
-	28	7	5	0	0 3
0.954659239	0.192409998		0.1444003	0	0
0.087309787					
ENSG00000141524	93.71389573		172.4129122	344.1850425	
68.3113191	80.41966921		144.2386814	203.4372835	
97.65655656	1.060436637		0.017653599	0.091667989	TMC6
17	78110458		78132407	-	8669
protein_coding transmembrane channel like 6 [Source:HGNC					
Symbol;Acc:HGNC:18021] -					
147	0.510988032		81	186	352 68 88
0.379263568	0.442356351		0.945971167	1.880945085	
ENSG00000103485	458.1568236		0.791579189		
335.5291262	376.5102695		472.7450818	672.7253103	
371.1188477	0.526806601		401.3171475	534.5424052	
16	29679008		0.017664556	0.09169374	QPRT
protein_coding quinolinate phosphoribosyltransferase [Source:HGNC					
Symbol;Acc:HGNC:9755] -					
409	5.946343006		29698699	+	3642
4.434123059	4.929647575		396	510	688 334 412
ENSG00000197070	171.230328		6.173965419	8.750864367	
346.5794866	326.2479762		5.242390916		
347.5819046	-0.598863886		271.5966843	244.449604	
9	137605654		369.9182508	229.0922054	
protein_coding arrestin domain containing 1 [Source:HGNC					
Symbol;Acc:HGNC:28633] -					
377	2.11826061		0.017691638	0.091790528	ARRDC1
4.365593296	4.071456285		137615360	+	3821
ENSG00000081870	576.1669145		148	293	250 345 357
154.7050462	392.0458874		3.380839397	3.030856864	
362.7939668	0.760735303		4.605855921		
1	53916574		678.5282351	589.6124449	
protein_coding heat shock protein family B (small) member 11					
[Source:HGNC Symbol;Acc:HGNC:25019] -					
154	429	552	541.6309667	614.7691982	
8.631996488	2.300983076		0.017695211	0.091790528	HSPB11
ENSG00000151470	148.0910945		53945929	-	3236
72.32963199	100.5245865		8.416190217	9.973245876	
83.78382002	0.876446767		5.777066636	7.96299789	
C4orf33	4		109.3802346	204.359869	
protein_coding chromosome 4 open reading frame 33 [Source:HGNC					
Symbol;Acc:HGNC:27025] -					
80	0.997876987		78.49724156	153.9437327	
0.496256305	0.683319174		0.017708522	0.091828419	
			129116640	+	7015
			128	118	209 72 110
			0.741631709	1.380133401	
			0.532363593		

ENSG00000253414	0	7.415609127	18.57816991	0	0	
	0	8.664593011	0	5.611091202	0.0177192	
	1	AC124067.2	8	37516410	37517021	
	-	510	sense_intronic	novel transcript		-
	0	8	19	0	0	0
0.691598064		1.725781784	0	0	0	
ENSG00000075651		252.2176453	229.8838829	238.5828135		
190.8698622		120.6295038	138.3513882	240.2281139		
149.9502514		0.680578196	0.017724212	0.091878612		PLD1
	3	171600405	171810950	-	12859	
protein_coding		phospholipase D1 [Source:HGNC Symbol;Acc:HGNC:9067]				
	-	218	248	244	190	132 141
0.927137207		0.850312263	0.878992331	0.714410158		
0.447327227		0.511867967				
ENSG00000072195		643.2706917	1183.716607	767.5717567		
1438.556014		968.6914701	1365.852003	864.8530184		
1257.699829		-0.539108694	0.017740039	0.091929484		SPEG
	2	219434846	219498287	+	17910	
protein_coding		SPEG complex locus [Source:HGNC Symbol;Acc:HGNC:16901]				
	-	556	1277	785	1432	1060 1392
1.697750701		3.143614399	2.030376259	3.865882488		
2.579104131		3.628187187				
ENSG00000132604		1153.490791	1210.59819	1184.113882		
1553.077931		1580.977588	1367.814434	1182.734288		
1500.623318		-0.343345909	0.017797329	0.092195112		TERF2
	16	69355561	69408571	-	5621	
protein_coding		telomeric repeat binding factor 2 [Source:HGNC Symbol;Acc:HGNC:11729]				
		MYB	997	1306	1211	1546 1730
	1394	9.700101658	10.243858	9.980056815		
13.29833046		13.41192498	11.57697843			
ENSG00000099866		5.784808379	16.68512054	3.911193665		
56.25638043		21.01877718	29.43646558	8.793707526		
35.57054107		-2.004618764	0.01782732	0.09231919		
MADCAM1	19	489176	505342	+	2651	protein_coding
mucosal vascular addressin cell		adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:6765]				
		-	5	18	4	56 23
	30	0.103146617	0.299362044	0.069896064		
1.021361577		0.378073908	0.528271964			
ENSG00000172638		1317.779349	1255.091845	1689.635663		
776.5389656		1237.366274	1074.430994	1420.835619		
1029.445411		0.464633368	0.017835318	0.092329326		EFEMP2
	11	65866441	65873592	-	5397	
protein_coding		EGF containing fibulin extracellular matrix protein 2 [Source:HGNC Symbol;Acc:HGNC:3219]				
		-		1139	1354	1728
	773	1354	1095	11.5416	11.06114802	14.83179711
	6.92513577	10.93263488	9.471259523			
ENSG00000143157		3038.18136	2640.8838	2815.08164		
3814.383509		3353.86575	3367.531663	2831.382267		
3511.926974		-0.310925357	0.017848411	0.092365828		POGK
	1	166839447	166856344	+	8448	

protein_coding	pogo transposable element derived with KRAB domain					
[Source:HGNC Symbol;Acc:HGNC:18800]		-	2626	2849	2879	
3797	3670	3432	16.99947579	14.86868299		
15.78665854	21.73141014		18.93087801	18.96441323		
ENSG00000158623	986.8883094		841.6716359	949.4422621		
690.1452385	784.0917748		611.2972686	926.0007358		
695.178094	0.412963838		0.017909085	0.092648455		COPG2
7	130506238		130668748	-	4139	
protein_coding	coatomer protein complex subunit gamma 2					
[Source:HGNC Symbol;Acc:HGNC:2237]		-	853	908	971	687
623	11.27063324		9.672180221	10.86741518		858
8.025323118	9.033383733		7.026493617			
ENSG00000198648	951.0224974		891.7269975	877.0851793		
674.071987	744.7958001		665.2641222	906.6115581		
694.7106364	0.383600067		0.017921794	0.092682836		STK39
2	167954020		168248141	-	4247	
protein_coding	serine/threonine kinase 39					
[Source:HGNC Symbol;Acc:HGNC:17717]		-	822	962	897	671
678	10.58483931		9.986809576	9.783914253		815
7.639087343	8.362457922		7.452353867			
ENSG00000231084	9.255693406		31.51633879	27.37835565		0
4.569299387	5.887293117		22.71679595	3.485530835		
2.701772929	0.017961057		0.092854473	RPL22P24		
1	185171335		185171710	-	376	
processed_pseudogene	ribosomal protein L22 pseudogene 24					
[Source:HGNC Symbol;Acc:HGNC:53758]		-	8	34		28
0	5	6	1.163581626	3.986805329		
3.449631002	0	0.579483077	0.744919668			
ENSG00000058453	549.556796		620.1303132	597.4348323		
1082.935323	601.3197993		840.9017002	589.0406472		
841.718941	-0.514183584		0.017973435	0.092887054		CROCC
1	16740273		16972979	+	8871	
protein_coding	"ciliary rootlet coiled-coil, rootletin					
[Source:HGNC Symbol;Acc:HGNC:21299]"		-	475	669	611	1078
857	2.928301184		3.324968203	3.19059064		658
5.875534735	3.23230186		4.509768808			
ENSG00000240342	6763.597956		5633.082083	5421.892218		
7049.125384	7354.744293		7641.706466	5939.524086		
7348.525381	-0.307295535		0.017986005	0.092894103		RPS2P5
12	118246084		118246962	+	879	
processed_pseudogene	ribosomal protein S2 pseudogene 5					
[Source:HGNC Symbol;Acc:HGNC:31386]		-	5846	6077	5545	7017
7788	363.717878		304.8135853	292.2234954		8048
385.9791256	398.9860307		413.6024509			
ENSG00000131165	4535.289769		6069.67607	5323.134578		
6134.959202	7030.324037		6879.302007	5309.366806		
6681.528415	-0.331452768		0.017986953	0.092894103		CHMP1A
16	89644431		89657845	-	3208	
protein_coding	charged multivesicular body protein 1A					
[Source:HGNC Symbol;Acc:HGNC:8740]		-	3920	6548	5444	6107
						7693

7011	66.82614676	89.99290456	78.61152344	
92.04385019	104.5008855	102.0214856		
ENSG00000140497	1124.566749	1400.623174	1239.848392	
1862.488024	1503.299498	1528.733779	1255.012771	
1631.5071	-0.377857845	0.018010126	0.092982369	SCAMP2
15	74843730	74873365	- 5000	
protein_coding	secretory carrier membrane protein 2 [Source:HGNC			
Symbol;Acc:HGNC:10564]	-	972 1511	1268 1854	1645
1558	10.6314126	13.3238096	11.7476691	
17.92837559	14.3368749	14.5459967		
ENSG00000107938	1003.085773	872.2610235	916.1971159	
758.4565576	688.1364877	689.7945102	930.5146374	
712.1291852	0.385557716	0.018068458	0.093252031	EDRF1
10	125719515	125764143	+ 7741	
protein_coding	erythroid differentiation regulatory factor 1			
[Source:HGNC Symbol;Acc:HGNC:24640]	-	867	941	937
755	753 703	6.125150198	5.359527627	
5.607186214	4.715753553	4.238932554	4.239399004	
ENSG00000011304	10979.5663	12987.51243	15118.71911	
11167.89609	8590.282848	10764.91546	13028.59928	
10174.3648	0.356842811	0.018077041	0.093264842	PTBP1
19	797075 812327	+ 6883	protein_coding	
polypyrimidine tract binding protein 1 [Source:HGNC				
Symbol;Acc:HGNC:9583]	-	9490 14011	15462 11117	9400
10971	75.40205038	89.74811205	104.0615655	
78.09281042	59.51256678	74.40711765		
ENSG00000062822	1644.042541	2284.007611	2371.161159	
1483.762034	1387.239294	1842.722746	2099.737104	
1571.241358	0.418831793	0.018097965	0.093314454	POLD1
19	50384204	50418016	+ 4932	
protein_coding	"DNA polymerase delta 1, catalytic subunit			
[Source:HGNC Symbol;Acc:HGNC:9175]"	-	1421	2464	2425
1477	1518 1878	15.75671656	22.02680939	
22.77671727	14.47966932	13.41242484	17.77536617	
ENSG00000127423	282.2986489	377.2691143	282.5837423	
161.7370937	220.2402305	229.6044316	314.0505018	
203.8605853	0.623816076	0.018104107	0.093314454	AUNIP
1	25831913	25859458	- 2408	
protein_coding	aurora kinase A and ninein interacting protein			
[Source:HGNC Symbol;Acc:HGNC:28363]	-	244	407	289
161	241 234	5.541509173	7.4519835	
5.559603453	3.232738757	4.361332098	4.536338047	
ENSG00000174720	851.5237933	995.5455253	951.3978589	
737.360415	749.3650995	640.7337342	932.8223925	
709.1530829	0.395895359	0.01810497	0.093314454	LARP7
4	112636964	112657592	+ 4083	
protein_coding	La ribonucleoprotein domain family member 7			
[Source:HGNC Symbol;Acc:HGNC:24912]	-	736	1074	973
734	820 653	9.858098362	11.59735255	
11.03915716	8.691963551	8.751713061	7.465859921	

ENSG00000285781	6.941770054	9.269511408	4.888992081	0	
0	0	7.033424515	0	5.307600793	
0.018122161	1	AL117340.1	10	31362799	
31364049	-	1251	unprocessed_pseudogene	putative	
UPF0607 protein	FLJ37424	[Source:NCBI gene;Acc:100505502]	-		
6	10	5	0	0	0.26229418
0.352433066	0.185146348	0	0	0	
ENSG00000112576	1337.447697	2049.488972	1991.775374		
1455.633844	1193.501	1347.208908	1792.904014		
1332.114584	0.429313863	0.01819415	0.093708595	CCND3	
6	41934933	42050357	-	5802	
protein_coding	cyclin D3	[Source:HGNC Symbol;Acc:HGNC:1585]	-		
1156	2211	2037	1449	1306	1373
16.80138084	16.2635654	12.07513174	9.808984544		
11.04685996					
ENSG00000170035	1644.042541	1354.275617	1659.323912		
904.1203998	1234.624694	1335.434322	1552.547357		
1158.059805	0.42252588	0.018199082	0.093708595	UBE2E3	
2	180967248	181076585	+	2973	
protein_coding	ubiquitin conjugating enzyme E2 E3	[Source:HGNC Symbol;Acc:HGNC:12479]	-	1421	1461
1361	26.13929568	21.66652512	26.44170094	1697	900
14.63689026	19.80245511	21.37023273			1351
ENSG00000092330	519.4757924	650.7197009	619.9241958		
714.2551159	993.3656868	756.5171655	596.706563		
821.3793227	-0.460591482	0.018199831	0.093708595	TINF2	
14	24239643	24242674	-	2712	
protein_coding	TERF1 interacting nuclear factor 2	[Source:HGNC Symbol;Acc:HGNC:11824]	-	449	702
771	9.054226791	11.41251562	10.82934098	634	711
12.67596794	17.46620112	13.27121633			1087
ENSG00000105971	19.66834849	6.488657986	0	0	0
0	8.719002158	0	5.612863597	0.018224263	
1	CAV2	7	116287380	116508541	+
6926	protein_coding	caveolin 2	[Source:HGNC Symbol;Acc:HGNC:1528]	-	17
0	0.134233572	0.044560444	0	0	0
0			0	0	0
ENSG00000047056	665.2529635	809.228346	678.5921008		
1255.722778	816.0768705	907.6243555	717.6911368		
993.1413345	-0.467863192	0.018237209	0.093869435	WDR37	
10	1049538	1132384	+	6000	protein_coding
repeat domain 37	[Source:HGNC Symbol;Acc:HGNC:31406]	-			WD
873	694	1250	893	925	575
6.415004292	5.358098287	10.07302656	6.485729121	5.240965575	
7.196751686					
ENSG00000188529	5494.410998	4288.075978	4213.333375		
3792.282788	3831.814466	3461.728353	4665.27345		
3695.275202	0.336009233	0.018295406	0.094137283	SRSF10	
1	23964804	23980927	-	10277	

protein_coding	serine and arginine rich splicing factor 10							
	[Source:HGNC Symbol;Acc:HGNC:16713]	-		4749	4626		4309	
	3775	4193	3528	25.27147122	19.8460111			
19.42283377		17.7603621		17.77940012	16.02537702			
ENSG00000122367		2.313923351		0.926951141	7.822387329			
23.10529911		34.72667534		9.812155195	3.687753941			
22.54804321		-2.609855782		0.018321778	0.09424126		LDB3	
	10	86668449		86736068	+	6676		
protein_coding	LIM domain binding 3 [Source:HGNC							
	Symbol;Acc:HGNC:15710]	-	2	1	8	23	38	
	10	0.016383564		0.006604161	0.055510625			
0.166576113		0.248042367		0.069924554				
ENSG00000187147		989.2022327		1890.980327	1530.254521			
1932.808499		2017.802609		2174.373591	1470.145694			
2041.661567		-0.472967205		0.018329578	0.094249667		RNF220	
	1	44405194		44651724	+	9687		
protein_coding	ring finger protein 220 [Source:HGNC							
	Symbol;Acc:HGNC:25552]	-	855	2040	1565	1924	2208	
	2216	4.826935857		9.284848583	7.483891765			
9.603222349		9.93272398		10.67889932				
ENSG00000099381		843.4250616		1122.537832	1425.630091			
1643.489971		1361.651217		1646.479642	1130.530995			
1550.540277		-0.454949713		0.018379342	0.094456175		SETD1A	
	16	30957294		30984664	+	6832		
protein_coding	SET domain containing 1A [Source:HGNC							
	Symbol;Acc:HGNC:29010]	-	729	1211	1458	1636	1490	
	1678	5.835450418		7.815022693	9.885806877			
11.57808299		9.503793875		11.46542439				
ENSG00000131016		27.76708022		64.88657986	31.28954932			
115.5264955		84.07510872		77.51602604	41.31440313			
92.37254343		-1.154815541		0.018382097	0.094456175		AKAP12	
	6	151239999		151358557	+	8741		
protein_coding	A-kinase anchoring protein 12 [Source:HGNC							
	Symbol;Acc:HGNC:370]	-	24	70	32	115	92	
	79	0.150156741		0.353078179	0.169586514			
0.636118369		0.458654126		0.421902411				
ENSG00000226652		0	0	0.977798416	4.018312888			
12.79403828		10.79337071		0.325932805				
9.201907295		-4.661072474		0.01841221	1	PSMD10P2		
	3	186760693		186762050	+	1087		
transcribed_processed_pseudogene	"proteasome 26S subunit, non-							
	ATPase, 10 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:30151]"	-						
	0	0	1	4	14	11	0	0
	0.042616022	0.177922824		0.56125095	0.472399225			
ENSG00000030066		3461.629334		3008.883403	3732.256554			
2844.965525		2706.852957		2633.582454	3400.923097			
2728.466979		0.317758101		0.018422488	0.094631911		NUP160	
	11	47778087		47848555	-	8576		
protein_coding	nucleoporin 160 [Source:HGNC Symbol;Acc:HGNC:18017]							
	-	2992	3246	3817	2832	2962	2684	

19.07969946	16.68774678	20.61768231	15.96649882	
15.05077556	14.60978332			
ENSG00000144381	16802.55442	15706.26013	16007.53787	
14102.26908	13026.15869	13338.64377	16172.11747	
13489.02385	0.261707807	0.01845646	0.094774571	HSPD1
2	197486581	197516737	- 4245	
protein_coding	heat shock protein family D (Hsp60) member 1			
[Source:HGNC Symbol;Acc:HGNC:5261]	-		14523 16944	16371
14038	14254 13594	187.0998139	175.9836035	
178.648745	159.8927456	146.3247051	149.4911927	
ENSG00000273489	0 0.926951141	0	13.05951689	
7.310879019	6.868508636	0.308983714		
9.079634847	-4.640002989	0.018491339	1 AC008264.2	
7	131493964	131497694	- 3731	
antisense	"novel transcript, antisense to MKLN1"			0
1	0 13	8 7	0 0.01181704	
0	0.168468737	0.093437957	0.0875828	
ENSG00000214279	104.1265508	152.0199871	131.0249878	
188.8607057	204.7046125	237.4541557	129.0571752	
210.3398247	-0.702276711	0.018492733	0.094928947	SCART1
10	133453928	133523558	+ 8015	
protein_coding	scavenger receptor family member expressed on T cells			
1 [Source:HGNC Symbol;Acc:HGNC:32411]	-		90 164	134
188	224 242	0.614092362	0.902140706	
0.774468445	1.134110938	1.217876048	1.409476616	
ENSG00000233765	0 0	0 22.10072088	0	
4.906077597	0 9.002266161	-5.588361275	0.018514417	
1	AL591479.1	9 66253424	66254464	
-	635	unprocessed_pseudogene CDRT15 protein		
pseudogene	- 0	0 0	22 0	5
0	0	1.675136386	0 0.36757191	
ENSG00000188766	411.8783566	415.2741111	286.4949359	
437.9961048	544.6604869	645.6398118	371.2158012	
542.7654679	-0.548618397	0.018534906	0.095113496	SPRED3
19	38388421	38399587	+ 5864	
protein_coding	sprouty related EVH1 domain containing 3 [Source:HGNC			
Symbol;Acc:HGNC:31041]	-	356 448	293 436	596
658	3.320096823	3.368356192	2.314600883	
3.594957365	4.429053189	5.238150447		
ENSG00000162642	728.8858557	808.3013948	678.5921008	
1045.765929	894.66882	966.4972867	738.5931171	
968.9773453	-0.391273871	0.018569313	0.095258084	
C1orf52 1	85249953	85259672	- 3420	
protein_coding	chromosome 1 open reading frame 52 [Source:HGNC			
Symbol;Acc:HGNC:24871]	-	630 872	694 1041	979
985	10.07416724	11.24150186	9.400172433	
14.71722196	12.47427125	13.44485616		
ENSG00000230417	24.29619519	7.415609127	18.57816991	0
4.569299387	0	16.76332474	1.523099796	
3.430698387	0.018584065	1 LINC00856	10	

78179185	78551355	+	9354	lincRNA long		
intergenic non-protein coding RNA 856 [Source:HGNC						
Symbol;Acc:HGNC:45111]	-	21	8	19	0	5
0	0.122776894	0.037707399	0.094093298	0	0	
0.023293312	0					
ENSG00000189129	5.784808379	3.707804563	11.73358099	0		
0	0	7.075397979	0	5.315916392		
0.018607487	1	PLAC9	10	80131682	80145359	
+	1240	protein_coding	placenta specific 9			
[Source:HGNC Symbol;Acc:HGNC:19255]						
0	0	0	0.220517486	0.142223795		12
0.448293061	0	0	0			
ENSG00000167291	2245.662613	2704.843429	3717.589578			
3930.914583	3596.038618	3967.054345	2889.365207			
3831.335849	-0.406785258	0.018615725	0.095464138			
TBC1D16	17	79932343	80035848	-	11555	
protein_coding TBC1 domain family member 16 [Source:HGNC						
Symbol;Acc:HGNC:28356]	-	1941	2918	3802	3913	3935
4043	9.186504631	11.13395074	15.2420934			
16.37348456	14.83998236	16.33352146				
ENSG00000259589	5.784808379	9.269511408	5.866790497	0		
0	0	6.973703428	0	5.296023504		
0.018628882	1	AC073167.1	15	63675146		
63713758	+	580	antisense	"novel transcript,		
antisense to HERC1"						
0	0.471451176	0.760161665	0.479209824	0	0	
0	0					
ENSG00000235106	804.0883646	799.0318834	807.6614917			
922.2028078	1102.115012	1108.773537	803.5939133			
1044.363786	-0.378259755	0.018632286	0.095489218			BRD30S
9	134025439	134034666	+	5994		
protein_coding BRD3 opposite strand [Source:HGNC						
Symbol;Acc:HGNC:24742]	-	695	862	826	918	1206
1130	6.341073377	6.340514283	6.383601447			
7.405035742	8.767770368	8.800507973				
ENSG00000156467	1305.05277	1822.385943	2112.044579			
1304.94711	1205.381178	1384.495098	1746.494431			
1298.274462	0.428490365	0.018633109	0.095489218			UQCRB
8	96225920	96235634	-	9715		
protein_coding ubiquinol-cytochrome c reductase binding protein						
[Source:HGNC Symbol;Acc:HGNC:12582]						
1299	1319	1411	6.34981405	8.922255724		2160
10.29943502	6.464985611	5.916441686	6.780008599			
ENSG00000228857	2.313923351	2.780853423	1.955596832			
31.14192488	7.310879019	12.75580175	2.350124535			
17.06953522	-2.856719699	0.018648605	1	AC104653.1		
2	113831049	113843356	-	671		
lincRNA novel transcript						
8	13	0.163005474	0.197120909	0.138073372		31
2.233779959	0.519548463	0.904413149				

ENSG00000112149	240.6480285		221.5413227		273.7835565	
117.535652	188.2551347		154.0508366		245.3243026	
153.2805411	0.677388556		0.018669866		0.095619765	CD83
6	14117256		14136918		+ 2515	
protein_coding	CD83 molecule [Source:HGNC Symbol;Acc:HGNC:1703]					
-	208	239	280	117	206	157
4.522931999	4.189805568		5.15730122		2.249308834	
3.569339258	2.914121794					
ENSG00000188157	3018.513012		2873.548537		6292.132808	
2069.431137	1715.31499		2376.503988		4061.398119	
2053.750038	0.983764816		0.018671093		0.095619765	AGRN
1	1020123	1056118	+ 10758		protein_coding	agrin
[Source:HGNC Symbol;Acc:HGNC:329]			-		2609	3100 6435
2060	1877	2422	13.26286203		12.70469115	
27.7089116	9.258420397		7.603110991		10.50965923	
ENSG00000120647	399.1517781		435.6670362		480.0990223	
346.5794866	299.7460398		281.6088541		438.3059456	
309.3114602	0.503628614		0.01869476		0.095702305	CCDC77
12	389273	442645	+ 3614		protein_coding	
coiled-coil domain containing	77 [Source:HGNC Symbol;Acc:HGNC:28203]					
-	345	470	491	345	328	287
5.220662996	5.733814884		6.293551635		4.615642497	
3.954980014	3.707146802					
ENSG00000154727	3821.444415		3237.840335		3088.865197	
2484.321943	2955.422844		2613.958144		3382.716649	
2684.567643	0.333136932		0.018702484		0.095702305	GABPA
21	25734570		25772460		+ 5429	
protein_coding	GA binding protein transcription factor subunit alpha					
[Source:HGNC Symbol;Acc:HGNC:4071]			ETS		3303	3493 3159
2473	3234	2664	33.27234762		28.36695384	
26.95455957	22.02447126		25.95845089		22.90658853	
ENSG00000136937	2628.616927		2190.385546		2290.003891	
2063.403668	1836.858354		1714.183513		2369.668788	
1871.481845	0.340250518		0.018705991		0.095702305	NCBP1
9	97633626		97673748		+ 5548	
protein_coding	nuclear cap binding protein subunit 1 [Source:HGNC					
Symbol;Acc:HGNC:7658]			-		2272	2363 2342 2054 2010
1747	22.39580036		18.77851421		19.55477819	
17.90050171	15.78767592		14.69949749			
ENSG00000163191	3644.429279		4079.511971		3922.927246	
4437.222007	4948.551236		4860.941683		3882.289498	
4748.904975	-0.290575559		0.018714381		0.095713196	
S100A11 1	152032506		152047907		- 680	
protein_coding	S100 calcium binding protein A11 [Source:HGNC					
Symbol;Acc:HGNC:10488]			-		3150	4401 4012 4417 5415
4954	253.3356761		285.3490387		273.3093362	
314.0651175	347.0149186		340.0894231			
ENSG00000182484	211.7239867		266.0349774		259.1165803	
459.0922475	359.1469318		293.3834403		245.6251815	
370.5408732	-0.591741074		0.018749421		0.095860335	WASH6P

X	156020826	156025710	+	4618	
transcribed_unprocessed_pseudogene	"WAS protein family homolog 6,				
pseudogene [Source:HGNC Symbol;Acc:HGNC:31685]"	-			183	287
265	457	393	299	2.16716448	2.740071693
2.6582413	4.784796679	3.708490916	3.022479024		
ENSG00000106346	868.8782185	912.1199226	886.8631635		
1161.292425	1214.519777	1048.91939	889.2871015		
1141.577197	-0.360234495	0.018783387	0.096001885		USP42
7	6104884	6161564	+	7072	protein_coding
ubiquitin specific peptidase 42	[Source:HGNC Symbol;Acc:HGNC:20068]				
-	751	984	907	1156	1329
5.807542514	6.134607827	5.941108597	7.903451609		
8.189197151	7.056372342				
ENSG00000145725	2553.414418	1988.310197	2102.266595		
1809.245378	1764.663423	1648.442073	2214.663737		
1740.783625	0.346899191	0.018811989	0.096101292		
PIIP5K2 5	103120149	103212799	+	17270	
protein_coding	diphosphoinositol pentakisphosphate kinase 2				
[Source:HGNC Symbol;Acc:HGNC:29035]	-			2207	2145
1801	1931	1680	6.988833729	5.476069066	2150
5.766981764	5.0422293	4.872462821	4.541120017		
ENSG00000164002	2.313923351	8.342560268	7.822387329		
21.09614266	24.67421669	35.3237587	6.159623649		
27.03137268	-2.118578708	0.018825603	0.096101292		EX05
1	40508741	40516556	+	3092	
protein_coding	exonuclease 5 [Source:HGNC Symbol;Acc:HGNC:26115]				
-	2	9	8	21	27
0.035374086	0.128332597	0.119854117	0.328383272		
0.380524721	0.543511893				
ENSG00000166938	990.3591944	823.1326131	869.262792		
695.1681296	699.1028062	648.5834584	894.2515332		
680.9514647	0.392457105	0.018827497	0.096101292		DIS3L
15	66293217	66333898	+	5436	
protein_coding	DIS3 like exosome 3'-5' exoribonuclease [Source:HGNC				
Symbol;Acc:HGNC:28698]	-	856	888	889	692
661	8.61170272	7.202238117	7.575734897		765
6.154997245	6.132542757	5.676335379			
ENSG00000267311	2.313923351	6.488657986	12.71137941		0
0	0	7.171320249	0	5.33791652	
0.018828077	1	AC007673.1	18	54879457	
54880809	+	1100	lincRNA "novel transcript, sense		
intronic to RAB27B"	-	2	7	13	0
0	0.099433339	0.28056876	0.54746092		0
0	0				
ENSG00000108262	2462.014446	3058.938765	2785.747688		
3231.72814	3580.503	3556.906258	2768.900299		
3456.379133	-0.319663591	0.018835661	0.096101292		GIT1
17	29573469	29594054	-	5635	
protein_coding	GIT ArfGAP 1 [Source:HGNC Symbol;Acc:HGNC:4272]				-
2128	3300	2849	3217	3918	3625
					20.65248978

	25.81986561	23.42076005	27.60313167	30.29905678	
	30.0303315				
ENSG00000104518	203.6252549	335.556313	466.4098445		
239.0896168	134.337402	217.8298453	335.1971375		
197.0856214	0.768333318	0.018836302	0.096101292	GSDMD	
8	143553207	143563062	+	5116	
protein_coding	gasdermin D [Source:HGNC Symbol;Acc:HGNC:25697] -				
176	362	477	238	147	222
	3.119693964	4.319070559	2.249301318	1.881381394	1.252118397
	2.025668965				
ENSG00000135046	10227.54121	8538.146958	7300.242975		
5885.823803	7588.692422	6864.583774	8688.643716	6779.7	
	0.357754294	0.018840555	0.096101292	ANXA1	9
	73151757	73170393	+	4561	protein_coding
	annexin A1 [Source:HGNC Symbol;Acc:HGNC:533] -				
	9211	7466	5859	8304	6996
89.03908083	75.82813405	62.1104452	79.33884358	105.9953725	
71.60374948					
ENSG00000083845	27666.42455	30616.26923	30272.63896		
33538.84852	33346.74693	43260.81104	29518.44425		
36715.46883	-0.31475074	0.018863909	0.096157998	RPS5	
19	58386400	58394806	+	3617	
protein_coding	ribosomal protein S5 [Source:HGNC				
Symbol;Acc:HGNC:10426]	-	23913	33029	30960	33386
	44089	361.5599085	402.6065853	396.5106887	36490
446.2899394	439.6265903	569.0203201			
ENSG00000253540	89.08604903	207.6370555	92.89084954		
248.1308208	201.049173	249.2287419	129.871318		
232.8029119	-0.83836951	0.018866128	0.096157998		
FAM86HP 3	130099092	130111472	-	1301	
transcribed_unprocessed_pseudogene	"family with sequence				
similarity 86 member H, pseudogene [Source:HGNC					
Symbol;Acc:HGNC:42359]"	-	77	224	95	247
	254	3.236742433	7.591099426	3.382585357	220
9.17953904	7.368922381	9.113862159			
ENSG00000174326	0	0	0	8.036625776	3.65543951
	9.812155195	0	7.168073494	-5.260510128	
0.018868134	1	SLC16A11	17	7041630	7043923
	2041	protein_coding	solute carrier family 16 member 11		
	[Source:HGNC Symbol;Acc:HGNC:23093]				
	8	4	10	0	0
	0.085403483	0.228719415	0	0	0.189517011
ENSG00000153006	1440.417286	951.9788217	889.7965587		
1486.775769	1688.813053	1337.396753	1094.064222		
1504.328525	-0.460518962	0.018870543	0.096157998		
SREK1IP1	5	64718144	64768685	-	7537
protein_coding	SREK1 interacting protein 1 [Source:HGNC				
Symbol;Acc:HGNC:26716]	-	1245	1027	910	1480
	1363	9.033697606	6.007667473	5.593006613	1848
9.494332054	10.68469303	8.441961679			

ENSG00000145416	170.0733663		177.0476679		166.2257307	
108.494448	104.180026		100.083983		171.1155883	
104.252819	0.715074599		0.018899466		0.096243605	1-Mar
4	163524298		164384050		- 10421	
protein_coding	membrane associated ring-CH-type finger 1 [Source:HGNC					
Symbol;Acc:HGNC:26077]	-		147 191		170 108	114
102	0.771440884		0.808086645		0.755687052	
0.501089816	0.47670977		0.456916469			
ENSG00000176438	864.2503718		879.6766327		1385.540356	
906.1295563	381.0795689		728.0619154		1043.155787	
671.7570135	0.635645212		0.018899935		0.096243605	SYNE3
14	95407266		95475836		- 18164	
protein_coding	spectrin repeat containing nuclear envelope family					
member 3 [Source:HGNC	Symbol;Acc:HGNC:19861]					
1417	902	417	742	2.249074395	2.303502443	949
3.613772534	2.401022671		1.000421829		1.906946232	
ENSG00000221962	2.313923351		9.269511408		9.777984162	0
0	0	7.120472974	0	5.328159302		
0.018903363	1	TMEM14EP	3	152339695		
152340990	-	1296	transcribed_processed_pseudogene			
Symbol;Acc:HGNC:34386]"	"transmembrane protein 14E, pseudogene [Source:HGNC					
0	0.084395581		2 10		10 0	0
0	0		0.340195807		0.357435311	0
ENSG00000145414	568.0681828		616.4225087		537.7891289	
867.9555838	707.3275451		730.0243465		574.0932734	
768.4358251	-0.420207173		0.018908523		0.096255276	NAF1
4	163110073		163166921		- 4808	
protein_coding	nuclear assembly factor 1 ribonucleoprotein					
[Source:HGNC	Symbol;Acc:HGNC:25126]					
864	774	744	5.584852992		6.098052293	550
5.299082565	8.688613925		7.015119919		7.22361369	
ENSG00000117280	1434.632478		1369.106835		1228.114811	
1740.934059	1803.045538		1567.001185		1343.951375	
1703.66026	-0.342476821		0.018950922		0.096438997	RAB29
1	205767986		205775460		- 3882	
protein_coding	"RAB29, member RAS oncogene family [Source:HGNC					
Symbol;Acc:HGNC:9789]"	-					
1597	17.46871128		1240 1477		1256 1733	1973
21.58461209	22.1477775		16.77486069		14.98775427	
ENSG00000182324	150.4050178		174.2668145		181.8705054	
391.7855066	198.3075934		243.3414488		168.8474459	
277.8115163	-0.716753635		0.018959018		0.096448091	KCNJ14
19	48455509		48466980		+ 4340	
protein_coding	potassium voltage-gated channel subfamily J member 14					
[Source:HGNC	Symbol;Acc:HGNC:6260]					
390	217	248	1.638129893		1.909862396	186
1.985297842	4.34486307		2.178856368		2.66752186	
ENSG00000000419	2051.293051		1715.786562		1656.390517	
1454.629265	1433.846148		1381.551451		1807.823377	

1423.342288	0.344513428	0.018999327	0.096620995	DPM1
20	50934867	50958555	-	1207
protein_coding	"dolichyl-phosphate mannosyltransferase subunit 1, catalytic [Source:HGNC Symbol;Acc:HGNC:3005]"			-
1694	1448	1569	1408	80.33340555
65.01425521	58.00460962	56.64665519	54.45545869	67.61345157
ENSG00000237550	3511.378686	4067.461606	3569.942017	
3662.692197	5442.94943	5440.840055	3716.26077	
4848.827228	-0.383757948	0.01901207	0.096653646	RPL9P9
15	82372196	82372912	-	717
transcribed_processed_pseudogene	ribosomal protein L9 pseudogene 9 [Source:HGNC Symbol;Acc:HGNC:17251]			-
4388	3651	3646	5956	5545
269.824525	235.8821801	245.8661412	361.9879645	3035
361.0176465				
ENSG00000124608	644.4276534	833.3290756	630.6799784	
934.2577465	891.9272404	988.0840281	702.8122358	
938.0896716	-0.41578693	0.019107238	0.097105169	AARS2
6	44299654	44313326	-	4298
protein_coding	"alanyl-tRNA synthetase 2, mitochondrial [Source:HGNC Symbol;Acc:HGNC:21022]"			-
1007	7.087343739	9.222045031	6.951775831	976
10.46207319	9.895597091	10.93727408		
ENSG00000153179	463.941632	513.530932	591.5680418	
318.4512964	462.413098	294.3646558	523.0135353	
358.4096834	0.544939646	0.019114281	0.097108678	RASSF3
12	64507001	64697567	+	4226
protein_coding	Ras association domain family member 3 [Source:HGNC Symbol;Acc:HGNC:14271]			-
300	5.189309728	5.779818889	6.631752927	506
3.626861622	5.217706209	3.313887782		
ENSG00000110429	757.8098976	654.4275054	629.70218	
442.0144177	562.0238246	495.5138373	680.6465277	
499.8506932	0.444390729	0.019148239	0.097248881	FBX03
11	33740939	33774543	-	12446
protein_coding	F-box protein 3 [Source:HGNC Symbol;Acc:HGNC:13582]			
-	655	706	644	440
2.878102231	2.500972189	2.396947526	615	505
2.153296908	1.894120556		1.709322842	
ENSG00000230733	726.5719323	796.25103	947.4866653	
1200.470975	1003.418145	1061.675192	823.4365425	
1088.521438	-0.401953885	0.019169807	0.097326085	
AC092171.2	7	5475804	5479811	+
transcript	-	628	859	969
10.56421879	11.64957689	13.80731597	1195	1098
14.71783631	15.53661225		1082	
ENSG00000243402	0	0	0.977798416	26.11903377
7.849724156	0.325932805	11.32291931	-4.9573739	0
0.019192308	1	AC022973.1	8	129864478
129865052	+	575	processed_pseudogene	

ribosomal protein L15 (RPL15) pseudogene	-	0	0		
1	26	0	8	0	0.080562811
2.186284721	0	0.649483583			
ENSG00000112983	806.402288	1063.212959	1106.867807		
761.4702923	700.930526	768.2917517	992.1610179		
743.56419	0.417031383	0.019207054	0.097459005	BRD8	
5	138139766	138178986	-	7046	
protein_coding bromodomain containing 8 [Source:HGNC					
Symbol;Acc:HGNC:19874]	-	697	1147	1132	758
783	5.409845372	7.177194853	7.442284085		767
5.201490184	4.743635634	5.187584202			
ENSG00000136098	207.09614	249.3498569	194.5818848		
149.6821551	126.1126631	135.4077417	217.0092939		
137.06752	0.663933364	0.019208738	0.097459005	NEK3	
13	52132639	52159861	-	4272	
protein_coding NIMA related kinase 3 [Source:HGNC					
Symbol;Acc:HGNC:7746]	-	179	269	199	149
138	2.291482262	2.77622713	2.157865086		138
1.686383098	1.407688103	1.507974085			
ENSG00000183230	10.41265508	5.561706845	4.888992081	0	
0	0	6.954451336	0	5.288350146	
0.019270773	1	CTNNA3	10	65912518	67696169
-	11136	protein_coding	catenin	alpha 3 [Source:HGNC	
Symbol;Acc:HGNC:2511]	-	9	6	5	0
0	0.044198548	0.023755052	0.020799037	0	
0	0				
ENSG00000162836	290.3973806	297.5513162	281.6059439		
355.6206906	451.4467794	428.791182	289.8515469		
411.952884	-0.507453875	0.019289463	0.097836106	ACP6	
1	147629652	147670496	-	11960	
protein_coding "acid phosphatase 6, lysophosphatidic [Source:HGNC					
Symbol;Acc:HGNC:29609]"	-	251	321	288	354
437	1.147723449	1.183335274	1.115485075		494
1.431110931	1.799924825	1.705675036			
ENSG00000234323	12.72657843	12.05036483	14.66697624		
3.013734666	0	0	13.14797317	1.004578222	
3.734697526	0.019336126	1	LINC01505	9	
105993310	106740875	+	10944	lincRNA long	
intergenic non-protein coding RNA 1505 [Source:HGNC					
Symbol;Acc:HGNC:51186]	-	11	13	15	3
0	0.054968174	0.052372249	0.063491799		0
0.013253982	0	0			
ENSG00000168374	7050.524452	5900.044011	6455.425144		
5364.447706	5303.128869	5241.653305	6468.664536		
5303.076626	0.286498845	0.01934205	0.098070289	ARF4	
3	57571363	57598220	-	2595	
protein_coding ADP ribosylation factor 4 [Source:HGNC					
Symbol;Acc:HGNC:655]	-	6094	6365	6602	5340
5342	128.428024	108.142151	117.8529923		5803
99.49588316	97.44819654	96.09760351			

ENSG00000088305	108.7543975	158.5086451	278.6725486	
124.5676995	86.81668835	76.53481052	181.9785304	
95.97306613	0.925203695	0.019358298	0.098120126	DNMT3B
20	32762385	32809356	+ 4630	
protein_coding	DNA methyltransferase 3 beta [Source:HGNC			
Symbol;Acc:HGNC:2979]	-	94 171	285 124	95
78	1.110303159	1.628354945	2.851453704	
1.294916935	0.894131123	0.786429231		
ENSG00000128928	956.8073058	1027.988815	1181.180487	
813.7083598	674.4285895	892.9061227	1055.325536	
793.681024	0.411660456	0.019396563	0.098247432	IVD
15	40405795	40435947	+ 6533	
protein_coding	isovaleryl-CoA dehydrogenase [Source:HGNC			
Symbol;Acc:HGNC:6186]	-	827 1109	1208 810	738
910	6.922892121	7.484328582	8.565579138	
5.99478452	4.92268789	6.50241629		
ENSG00000128578	621.2884199	729.5105478	405.7863427	
841.8365501	892.8411002	767.3105362	585.5284368	
833.9960622	-0.51033818	0.019399595	0.098247432	STRIP2
7	129434433	129488399	+ 5876	
protein_coding	striatin interacting protein 2 [Source:HGNC			
Symbol;Acc:HGNC:22209]	-	537 787	415 838	977
782	4.99789596	5.905095195	3.271664529	
6.895463247	7.245550276	6.212565803		
ENSG00000179632	2136.908215	3138.656563	2951.973418	
3455.749084	3349.296451	3866.970362	2742.512732	
3557.338632	-0.374834156	0.019402695	0.098247432	MAF1
8	144104499	144107611	+ 2377	
protein_coding	"MAF1 homolog, negative regulator of RNA polymerase			
III [Source:HGNC	Symbol;Acc:HGNC:24966]"	-	1847 3386	
3019	3440 3665	3941 42.49447093	62.80463992	
58.83508525	69.9729973	67.18980722	77.39685061	
ENSG00000156509	84.45820233	50.05536161	128.0915925	
40.18312888	30.15737595	46.11712942	87.53505215	
38.81921142	1.173644233	0.019433799	0.098372344	FBX043
8	100133360	100145800	- 3950	
protein_coding	F-box protein 43 [Source:HGNC			
Symbol;Acc:HGNC:28521]	-	73 54	131 40	33 47
1.010695838	0.602740844	1.536302212	0.489625595	
0.364062077	0.555452337			
ENSG00000058866	409.5644332	297.5513162	280.6281454	
509.3211586	451.4467794	457.2464321	329.247965	
472.6714567	-0.523452292	0.019452227	0.098423044	DGKG
3	186105668	186362237	- 10978	
protein_coding	diacylglycerol kinase gamma [Source:HGNC			
Symbol;Acc:HGNC:2853]	-	354 321	287 507	494
466	1.763497094	1.289186544	1.211047357	
2.232985739	1.960931036	1.98156684		
ENSG00000154920	437.3315134	470.8911796	552.4561051	
433.9777919	276.8995429	279.646423	486.8929327	

330.1745859	0.561401834	0.019456691	0.098423044	EME1
17	50373220	50381483	+ 3294	
protein_coding	essential meiotic structure-specific endonuclease 1			
[Source:HGNC Symbol;Acc:HGNC:24965]	-	378	508	565
432	303	285	6.275710738	6.799454554
7.945611177	6.341052786	4.008460713	4.038939064	
ENSG00000124920	476.6682104	469.9642284	786.1499266	
403.8404453	339.0420145	429.7723975	577.5941218	
390.8849524	0.564027075	0.01946823	0.098448834	MYRF
11	61752642	61788518	+ 10680	
protein_coding	myelin regulatory factor [Source:HGNC			
Symbol;Acc:HGNC:1181]	NDT80/PhoG	412	507	804 402
371	438	2.10969987	2.093006922	3.487283475
1.819935585	1.513774742	1.914471447		
ENSG00000267260	38.1797353	94.54901637	22.48936357	
232.0575693	82.24738897	74.57237948	51.73937175	
129.6257792	-1.320815894	0.0194927	0.098539983	
AC020928.1	19	36773153	36777078	+ 2050
lincRNA	uncharacterized LOC728485 [Source:NCBI			
gene;Acc:728485]	-	33	102	23 231 90
76	0.88034883	2.193715322	0.519728378	
5.448278952	1.913142177	1.730636134		
ENSG00000178605	1600.077998	2146.818842	2069.021449	
2606.880486	2254.492318	2615.920575	1938.639429	
2492.431126	-0.361901609	0.019502826	0.098558578	GTPBP6
X	304529	318819	- 2964	protein_coding GTP
binding protein	6 (putative) [Source:HGNC Symbol;Acc:HGNC:30189]			
-	1383	2316	2116 2595	2467 2666
25.5175335	34.45040356	33.07043594	42.33118045	
36.27016639	41.98827004			
ENSG00000134853	503.2783289	211.3448601	386.2303744	
206.9431137	234.8619885	233.5292936	366.9511878	
225.1114653	0.703002809	0.019509972	0.098562107	PDGFRA
4	54229097	54298247	+ 9732	
protein_coding	platelet derived growth factor receptor alpha			
[Source:HGNC Symbol;Acc:HGNC:8803]	-	435	228	395
206	257	238	2.444454002	1.032920043
1.880171439	1.023449308	1.150772886	1.141618223	
ENSG00000255248	1792.133636	1574.889988	1012.999159	
1829.336942	2185.952827	1979.111703	1460.007594	
1998.133824	-0.453194567	0.019537338	0.098667752	
MIR100HG	11	122028327	122556721	- 19385
processed_transcript	mir-100-let-7a-2-mir-125b-1 cluster			
host gene [Source:HGNC Symbol;Acc:HGNC:39522]	-	1549	1699	
1036	1821	2392	2017	4.369988813 3.86421722
2.475690818	4.541981458	5.377172485	4.857201592	
ENSG00000131469	8311.612678	14105.41551	12631.19994	
13340.79879	14569.66803	19567.39989	11682.74271	
15825.95557	-0.437810798	0.01956206	0.098710925	RPL27
17	42998273	43002959	+ 2026	

protein_coding	ribosomal protein L27 [Source:HGNC						
Symbol;Acc:HGNC:10328]	-	7184	15217	12918	13280	15943	
19942	193.9195503	331.1490836		295.3644993			
316.9274458	342.9171478	459.4891986					
ENSG00000165934	2391.439784	2209.85152		2165.823492			
1869.520071	1903.570125	1648.442073		2255.704932			
1807.177423	0.319598566	0.019562398		0.098710925		CPSF2	
14	92121937	92172145		+	13595		
protein_coding	cleavage and polyadenylation specific factor 2						
[Source:HGNC Symbol;Acc:HGNC:2325]	-			2067	2384	2215	
1861	2083	1680	8.314879838	7.73145081			
7.547393169	6.618634179	6.676804434		5.768675446			
ENSG00000111832	1342.075544	893.5808998		962.1536415			
453.0647781	951.3281324	742.7801482		1065.936695			
715.7243529	0.573604046	0.019565258		0.098710925		RWDD1	
6	116571367	116597675		+	5909		
protein_coding	RWD domain containing 1 [Source:HGNC						
Symbol;Acc:HGNC:20993]	-	1160	964	984	451	1041	
757	10.73590629	7.192783723		7.714069801			
3.690317803	7.677067114	5.980368225					
ENSG00000261596	0	3.707804563		0.977798416	25.11445555		
9.138598774	11.77458623	1.56186766		15.34254685			
-3.252002859	0.019689352	1		AC005632.2	16		
21626742	21627569	+		828	sense_intronic		
"novel transcript, sense intronic to METTL9"				-	0		
4	1	25	10	12	0	0.212992157	
0.055946397	1.459858922	0.526293809		0.676545399			
ENSG00000159167	2869.264956	3414.888003		1613.367387			
3759.131707	6274.561918	4347.765967		2632.506782			
4793.819864	-0.864767125	0.019692865		0.099298197		STC1	
8	23841915	23854807		-	4149		
protein_coding	stanniocalcin 1 [Source:HGNC Symbol;Acc:HGNC:11373]						
-	2480	3684	1650	3742	6866	4431	
32.68909963	39.14805093	18.42226245		43.60753769			
72.11389646	49.8544984						
ENSG00000105722	976.4756543	1949.378249		1948.752243			
2299.47955	2264.544776	2326.461997		1624.868716			
2296.828774	-0.498584288	0.019694651		0.099298197		ERF	
19	42247572	42255157		-	3295		
protein_coding	ETS2 repressor factor [Source:HGNC						
Symbol;Acc:HGNC:3444]	ETS	844	2103	1993	2289	2478	
2371	14.00818086	28.139593		28.01910996			
33.58857585	32.77211581	33.59094106					
ENSG00000265496	2.313923351	12.05036483		6.844588913		0	
0	0	7.069625699		0	5.318285034		
0.019699335	1	AC100778.3		18	49487339		
49491878	+	582	antisense		microRNA 1539	-	
2	13	7	0	0	0	0.187932428	
0.984814253	0.557156897	0		0	0		
ENSG00000262777	10.41265508	6.488657986		3.911193665		0	

0	0	6.937502244	0	5.28500083	
0.019701118	1	AC032044.1	17	1424473 1426484 +	
691		antisense		"novel transcript, antisense to CRK"	
-	9	7	4	0	0
0.712293817	0.446636232		0.268154074	0	0
ENSG00000170889	12120.33051		14210.16099	13456.4618	
14613.5994	15485.35562		20085.48168	13262.31777	
16728.14557	-0.334894339		0.019750063	0.099544744	RPS9
19	54200742		54249003	+ 4371	
protein_coding	ribosomal protein S9 [Source:HGNC				
Symbol;Acc:HGNC:10442]	-	10476	15330	13762 14547	16945
20470	131.07184		154.630552	145.8489151	
160.9140067	168.9348943		218.6165679		
ENSG00000265681	214.03791		329.067655	307.0287027	
478.1792337	377.4241294		402.298363	283.3780892	
419.3005753	-0.562924539		0.019764418	0.099569843	RPL17
18	49488453		49492523	- 2466	
protein_coding	ribosomal protein L17 [Source:HGNC				
Symbol;Acc:HGNC:10307]	-	185	355	314 476	413
410	4.102734079		6.347010821	5.898465337	
9.332867432	7.298196917		7.76134199		
ENSG00000132801	165.4455196		200.2214464	143.7363672	
367.6756293	243.0867274		212.9237677	169.8011111	
274.5620415	-0.692245286		0.019768069	0.099569843	ZSWIM3
20	45857617		45879122	+ 2773	
protein_coding	zinc finger SWIM-type containing 3 [Source:HGNC				
Symbol;Acc:HGNC:16157]	-	143	216	147 366	266
217	2.820206314		3.434296913	2.455669527	
6.381641926	4.180135549		3.653052385		
ENSG00000156795	639.7998067		608.0799484	464.4542477	
403.8404453	398.4429066		429.7723975	570.7780009	
410.6852498	0.474441232		0.019792989	0.099662523	WDYHV1
8	123416725		123470028	+ 4930	
protein_coding	WDYHV motif containing 1 [Source:HGNC				
Symbol;Acc:HGNC:25490]	-	553	656	475 402	436
438	6.134411774		5.866659439	4.463228752	
3.94257851	3.853879823		4.147374251		
ENSG00000188501	133.0505927		72.30218899	72.3570828	
66.30216265	16.44947779		30.4176811	92.56995483	
37.72310718	1.296035992		0.019823493	0.099751995	LCTL
15	66547179		66565979	- 3518	
protein_coding	lactase like [Source:HGNC Symbol;Acc:HGNC:15583]				
-	115 78	74	66	18 31	
1.787708553	0.977535922		0.97440239	0.907087781	
0.222964267	0.411350372				
ENSG00000009830	864.2503718		795.3240788	966.0648352	
695.1681296	604.9752388		689.7945102	875.2130953	
663.3126262	0.400120682		0.019833511	0.099751995	POMT2
14	77274956		77320884	- 10008	
protein_coding	protein O-mannosyltransferase 2 [Source:HGNC				

Symbol;Acc:HGNC:19743]	-	747	858	988	692	662
703	4.081953169	3.779844635		4.5731148		
3.343181957	2.882499831	3.279095492				
ENSG00000060138	4659.084668	5106.573835		4275.912474		
5344.356141	5745.437049	6215.0191		4680.523659		
5768.270764	-0.301432688	0.019835465		0.099751995		YBX3
12	10699089	10723312		-	8610	
protein_coding	Y-box binding protein 3 [Source:HGNC					
Symbol;Acc:HGNC:2428]	CSD	4027	5509	4373	5320	6287
6334	25.57838918	28.21003201		23.5276625		
29.87512268	31.81990705	34.34163306				
ENSG00000247271	60.16200714	70.4482867		76.26827646		
36.16481599	21.93263706	33.36132766		68.95952343		
30.48626024	1.180433289	0.019836859		0.099751995		ZBED5-
AS1	11	10858259		10906802	+	1995
antisense	ZBED5 antisense RNA 1 [Source:HGNC					
Symbol;Acc:HGNC:48646]	-	52	76	78	36	24
34	1.425460398	1.679595298		1.811148908		
0.872490722	0.524236119	0.795576695				
ENSG00000085185	245.2758753	337.4102153		391.1193665		
495.2570635	382.9072886	573.0298634		324.601819		
483.7314052	-0.573678088	0.019851968		0.099795142		BCORL1
X	129981107	130058083		+	7996	
protein_coding	BCL6 corepressor like 1 [Source:HGNC					
Symbol;Acc:HGNC:25657]	-	212	364	400	493	419
584	1.449965898	2.007070169		2.317339485		
2.981091803	2.283493792	3.409463908				
ENSG00000109689	389.8960847	411.5663065		368.6300029		
669.0490959	522.7278499	457.2464321		390.030798		
549.6744593	-0.494652913	0.01987111		0.099858534		STIM2
4	26857678	27025381		+	6909	
protein_coding	stromal interaction molecule 2 [Source:HGNC					
Symbol;Acc:HGNC:19205]	-	337	444	377	666	572
466	2.667530667	2.83335985		2.527717955		
4.6607977	3.607774909	3.148594698				
ENSG00000089127	19.66834849	26.88158308		9.777984162		
27.12361199	87.73054823	51.02320701		18.77597191		
55.29245575	-1.558610534	0.020032173		0.100634842		OAS1
12	112906777	112933222		+	4947	
protein_coding	2'-5'-oligoadenylate synthetase 1 [Source:HGNC					
Symbol;Acc:HGNC:8086]	-	17	29	10	27	96
52	0.187932428	0.258458039		0.093639815		
0.263890083	0.845644679	0.490690296				
ENSG00000092470	1293.483153	1224.502457		1092.200831		
737.360415	1044.54184	935.0983901		1203.39548		
905.6668816	0.409487201	0.020047506		0.100670355		WDR76
15	43826963	43868419		+	4078	
protein_coding	WD repeat domain 76 [Source:HGNC					
Symbol;Acc:HGNC:25773]	-	1118	1321	1117	734	1143
953	14.99302603	14.28201728		12.68844517		

8.702620691	12.21399131	10.90917014					
ENSG00000181915	1256.46038	1243.04148	1051.133297				
1460.656735	1643.12006	1434.537089	1183.545052				
1512.771295	-0.3544087	0.020053295	0.100670355	ADO			
10	62804857	62808483	+ 3627				
protein_coding	2-aminoethanethiol dioxygenase [Source:HGNC						
Symbol;Acc:HGNC:23506]	-	1086 1341	1075 1454	1798			
1462	16.37483688	16.30103501	13.72977324				
19.38286931	21.60233664	18.81680364					
ENSG00000244398	2026.996856	1673.146809	1955.596832				
2140.756191	2570.687835	2436.358135	1885.246832				
2382.60072	-0.338205639	0.020058998	0.100670355				
AC116533.1	11 16974693	16975013	-	321			
processed_pseudogene	ribosomal protein L36a (RPL36A)						
pseudogene	-	1752 1805 2000 2131 2813	2483				
298.4858736	247.9168995	288.6206624	320.9812277				
381.8768201	361.0918805						
ENSG00000157796	726.5719323	788.8354209	597.4348323				
512.3348932	524.5555696	529.8563805	704.2807285				
522.2489478	0.431399731	0.020099985	0.100815006	WDR19			
4	39182404	39285810	+ 8873				
protein_coding	WD repeat domain 19 [Source:HGNC						
Symbol;Acc:HGNC:18340]	-	628 851	611 510	574			
540	3.870649755	4.228565251	3.189871472				
2.779079119	2.819032019	2.840987443					
ENSG00000198838	108.7543975	57.47097073	81.15726854				
58.26553688	12.79403828	25.51160351	82.46087893				
32.19039289	1.358797867	0.02010101	0.100815006	RYR3			
15	33310945	33866121	+ 20370				
protein_coding	ryanodine receptor 3 [Source:HGNC						
Symbol;Acc:HGNC:10485]	-	94 62	83 58	14			
26	0.252366403	0.13419447	0.188751112				
0.137669641	0.029949916	0.059583822					
ENSG00000145723	232.5492968	189.0980327	131.0249878				
73.33421021	114.2324847	124.614371	184.2241058				
104.0603553	0.822021352	0.020117499	0.100864616	GIN1			
5	103086000	103120151	- 4182				
protein_coding	gypsy retrotransposon integrase 1 [Source:HGNC						
Symbol;Acc:HGNC:25959]	-	201 204	134 73	125			
127	2.628492497	2.150701297	1.484305257				
0.843995339	1.302520545	1.417639248					
ENSG00000228775	0 0	0 0	5.483159264				
20.60552591	0 8.696228391	-5.540178405	0.0201406				
1	WEE2-AS1	7	141704338	141738346			
-	3504 antisense	WEE2 antisense RNA 1					
[Source:HGNC Symbol;Acc:HGNC:48669]	-	0 0	0	0			
0	6 21	0 0	0 0				
0.074618369	0.279770058						
ENSG00000236274	8.09873173	6.488657986	5.866790497	0			
0	0 6.818060071	0	5.261349058				

0.020171891	1	AC004865.1	1	35509742		
35511438	+	1003	processed_pseudogene	zinc finger		
protein_pseudogene	-	7	7	6	0	0
0	0.381673335	0.307702528	0.277110367	0		
0	0					
ENSG00000285692	9.255693406	0.926951141	11.73358099	0		
0	0	7.305408514	0	5.359771455		
0.020172072	1	AC023509.6	12	53531752		
53621218	+	867	antisense	-		8
1	12	0	0	0	0.504621328	
0.050852799	0.641157319	0	0	0		
ENSG00000174574	1544.543837	1556.350965	1566.433063			
1925.776452	2051.615425	1821.136004	1555.775955			
1932.842627	-0.313140139	0.020189458	0.101185862			
AKIRIN1	1	38991223	39006059	+	2741	
protein_coding	akirin 1 [Source:HGNC Symbol;Acc:HGNC:25744]					-
1335	1679	1602	1917	2245	1856	26.63587345
27.00695486	27.07421865	33.81538169	35.69159099			
31.60930683						
ENSG00000172809	4993.446592	4211.139033	4343.380565			
4683.343671	5936.433764	6674.227963	4515.98873			
5764.668466	-0.352371374	0.02019481	0.101185862			RPL38
17	74203582	74210655	+	3829		
protein_coding	ribosomal protein L38 [Source:HGNC Symbol;Acc:HGNC:10349]					
6802	61.64399583	52.31079598	53.73975024			6496
58.86919801	73.92975171	82.92725637				
ENSG00000166402	499.8074439	446.7904499	549.5227099			
419.9136968	355.4914923	232.5480781	498.7068679			
335.9844224	0.569730926	0.020219651	0.101277132			TUB
11	8019244	8106112	+	6722		protein_coding
bipartite transcription factor	[Source:HGNC Symbol;Acc:HGNC:12406]					tubby
Tub	432	482	562	418	389	237
3.514632749	3.161422123	3.872935491	3.006623102			
2.521794487	1.645871306					
ENSG00000147454	3016.199089	2752.117937	3217.934588			
2647.063615	2157.623171	2373.560342	2995.417204			
2392.749042	0.324156063	0.020253533	0.101413611			
SLC25A37	8	23528805	23575463	+		8147
protein_coding	solute carrier family 25 member 37					
[Source:HGNC Symbol;Acc:HGNC:29786]					2607	2969
2635	2361	2419	17.49999915	16.06743084		3291
18.71253483	15.63810482	12.6286483	13.86066885			
ENSG00000164742	52.06327541	71.37523785	54.75671131			
124.5676995	124.2849433	89.29061227	59.39840819			
112.7144184	-0.92214205	0.020275902	0.101492375			ADCY1
7	45574140	45723116	+	13812		
protein_coding	adenylate cyclase 1 [Source:HGNC Symbol;Acc:HGNC:232]					
-	45	77	56	124	136	91
0.178176596	0.245792209	0.187816574	0.434076557			

0.429082633	0.307560713						
ENSG00000258944	0	0.926951141	0	17.07782977			
15.53561792	0	0.308983714	10.87114923	-4.900772607			
	0.020295708	1	AC004846.2	14	73272182		
	73274081	-	777	antisense	"novel		
transcript, antisense to PAPLN"							
	17	0	0	0.056743084	0	1.057862249	
	0.953424923	0					
ENSG00000101040	1858.080451		1827.020699	2428.851266			
1579.196965	1636.72304		1547.376874	2037.984139			
1587.765627	0.360249304		0.020312643	0.101643		ZMYND8	
	20	47209214	47356889	-	7625		
protein_coding	zinc finger MYND-type containing 8 [Source:HGNC						
Symbol;Acc:HGNC:9397]	-	1606	1971	2484	1572	1791	
	1577	11.51861879	11.39674246	15.09086727			
9.968134979	10.23562427		9.65467994				
ENSG00000224855	8.09873173		3.707804563	8.800185745	0		
	0	6.868907346	0	5.271592075			
0.020330098	1	OPA1-AS1	3	193618609			
193627337	-	497	antisense	OPA1 antisense RNA 1			
[Source:HGNC Symbol;Acc:HGNC:40421]							
	0	0	0	0.77025826	0.354844077		
0.838858243	0	0	0				
ENSG00000130803	1148.862944		1142.003806	1048.199902			
1556.091666	1436.587727		1271.655313	1113.022217			
1421.444902	-0.352958839		0.020330154	0.101697336		ZNF317	
	19	9140380	9163424	+	5065	protein_coding	zinc
finger protein 317 [Source:HGNC						zf-C2H2	993
Symbol;Acc:HGNC:13507]							
	1232	1072	1549	1572	1296	10.72172124	
10.72420769	9.804327085		14.78676547	13.5248261			
11.94459937							
ENSG00000267365	8.09873173		18.53902282	9.777984162			
2.009156444	0	0.981215519	12.13857957	0.996790655			
	3.629153907	0.020362455	1	KCNJ2-AS1	17		
	70166961	70169402	-	2442	antisense		
	KCNJ2 antisense RNA 1 [Source:HGNC						
	Symbol;Acc:HGNC:43720]						
	-	7	20	10	2	0	1
0.156764273	0.361092355		0.189695398	0.039599122	0		
	0.019116148						
ENSG00000263884	0	0	3.911193665	26.11903377			
11.88017841	7.849724156		1.303731222				
15.28297878	-3.529132934		0.020365315	1	AP000845.1		
	18	268148	270278	+	2131	lincRNA	novel
transcript							
	-	0	0	4	26	13	8
	0	0	0.086951884	0.589917276	0.265838881		
	0.175247799						
ENSG00000156427	21.98227184		12.97731597	8.800185745	0		
	3.65543951	0	14.58659119	1.218479837			
3.549182399	0.020382312		1	FGF18	5	171419656	
	171457623	+	1986	protein_coding	fibroblast		

growth factor 18 [Source:HGNC Symbol;Acc:HGNC:3674]	-	19
14 9 0 4 0 0.523201607		
0.310801245 0.209925754 0 0.087768635 0		
ENSG00000131748 1571.153956 2011.483976 2064.132457		
2372.81376 2279.166534 2539.385764 1882.256796		
2397.12202 -0.348285221 0.020397136 0.10198326		STARD3
17 39637065 39663484 + 5160		
protein_coding StAR related lipid transfer domain containing 3 [Source:HGNC Symbol;Acc:HGNC:17579]	-	1358 2170 2111
2362 2494 2588 14.39278312 18.54146263		
18.95138644 22.13254766 21.06227822 23.4131909		
ENSG00000145354 1597.764074 1198.547825 1266.248949		
898.0929305 1017.126044 1155.871882 1354.186949		
1023.696952 0.402962811 0.020400655 0.10198326		CISD2
4 102868974 102892807 + 6352		
protein_coding CDGSH iron sulfur domain 2 [Source:HGNC Symbol;Acc:HGNC:24212]	-	1381 1293 1295 894 1113
1178 11.88989178 8.97474243 9.444125177		
6.805001823 7.635601817 8.657267498		
ENSG00000086827 1742.384284 1391.353662 1479.409004		
1279.832655 1279.403828 904.680709 1537.71565		
1154.639064 0.412866598 0.020420343 0.102048312		ZW10
11 113733187 113773811 - 2992		
protein_coding zw10 kinetochore protein [Source:HGNC Symbol;Acc:HGNC:13194]	-	1506 1501 1513 1274 1400
922 27.52695009 22.11836706 23.42501052		
20.58775803 20.39036708 14.38518222		
ENSG00000044115 9171.235203 7906.893231 8744.451236		
7286.205844 6539.581283 7371.872198 8607.526557		
7065.886442 0.284682384 0.02043688 0.102097577		CTNNA1
5 138610967 138935034 + 8830		
protein_coding catenin alpha 1 [Source:HGNC Symbol;Acc:HGNC:2509]	-	7927 8530 8943 7253 7156 7513
49.0956334 42.59143626 46.91643269 39.71533136		
35.31573311 39.71903798		
ENSG00000226026 0 12.97731597 11.73358099 0 0		
0 8.236965655 0 5.538816308 0.020463067		
1 AC092802.1 1 95163219 95233982		
- 2505 antisense uncharacterized LOC101928118		
[Source:NCBI gene;Acc:101928118]	-	0 14 12
0 0 0 0 0.246407693 0.221909539		
0 0 0		
ENSG00000256185 11.56961676 8.342560268 5.866790497		
1.004578222 0 0 8.592989174 0.334859407		
4.632450814 0.020505873 1 AC055720.2 12		
26335864 26336950 - 172		
3prime_overlapping_ncRNA novel transcript - 10		
9 6 1 0 0 3.179554444		
2.307002263 1.615940104 0.281107718 0 0		
ENSG00000188878 197.8404465 253.9846126 246.4052009		

147.6729986	123.3710835	171.7127159	232.74342	
147.5855993	0.658929404	0.020524488	0.10250175	FBF1
17	75909574	75941140	- 6730	
protein_coding	Fas binding factor 1 [Source:HGNC			
Symbol;Acc:HGNC:24674]	-	171 274	252 147	135
175	1.389555056	1.795020681	1.73455443	
1.056096217	0.87413257	1.213861173		
ENSG00000114554	5368.302175	4910.987144	9858.163632	
3787.259897	2960.906003	4322.254363	6712.484317	
3690.140088	0.86320426	0.020549743	0.102594355	PLXNA1
3	126988594	127037392	+ 10944	
protein_coding	plexin A1 [Source:HGNC Symbol;Acc:HGNC:9099]			
4640	5298 10082 3770 3240	4405	23.18657539	-
21.34370588	42.67495428	16.65583778	12.90112323	
18.78952772				
ENSG00000215421	562.2833744	460.694717	461.5208524	
756.4474012	619.5969969	639.7525187	494.8329813	
671.9323056	-0.442165573	0.020574205	0.102682951	ZNF407
18	74597870	75065671	+ 12190	
protein_coding	zinc finger protein 407 [Source:HGNC			
Symbol;Acc:HGNC:19904]	zf-C2H2	486 497	472 753	678
652	2.180355333	1.797573434	1.793662584	
2.986706087	2.42373194	2.496835474		
ENSG00000163344	716.1592773	776.785056	784.1943298	
848.8685976	1023.523063	1130.360278	759.046221	
1000.917313	-0.398847423	0.020594823	0.102752302	PMVK
1	154924734	154936991	- 1280	
protein_coding	phosphomevalonate kinase [Source:HGNC			
Symbol;Acc:HGNC:9141]	-	619 838	802 845	1120
1152	26.4469377	28.86476373	29.02464085	
31.91890291	38.12998643	42.0134693		
ENSG00000234754	23.13923351	0 2.933395248	0 0	
0	8.690876254	0 5.606504128	0.020628865	
1	C1orf140	1 221330080	221336296	
-	4340 lincRNA	uncharacterized LOC400804	[Source:NCBI	
gene;Acc:400804]	-	20 0 3	0 0	
0	0.252019984	0 0.032020933	0 0	
0				
ENSG00000135316	7698.42299	7094.884032	8126.482637	
6488.570736	6249.887702	6235.624626	7639.929886	
6324.694355	0.272542652	0.020650392	0.1029829	
SYNCRIP 6	85607785	85643792	- 8205	
protein_coding	synaptotagmin binding cytoplasmic RNA interacting			
protein [Source:HGNC Symbol;Acc:HGNC:16918]	-	6654 7654		
8311 6459 6839 6355	44.35054121	41.1285909		
46.92206888	38.06167667	36.32223936	36.15621876	
ENSG00000033800	945.2376891	819.4248085	824.2840648	
723.2963199	556.5406653	664.2829067	862.9821875	
648.039964	0.413162242	0.020654515	0.1029829	PIAS1
15	68054179	68198603	+ 10776	

protein_coding	protein inhibitor of activated STAT 1 [Source:HGNC						
Symbol;Acc:HGNC:2752]	zf-MIZ	817	884	843	720	609	
677	4.146285344	3.61683453	3.623868648				
3.230547494	2.462738545	2.932764035					
ENSG00000274425	8.09873173	8.342560268	0.977798416				
48.21975466	33.81281546	6.868508636	5.806363471				
29.63369292	-2.356130365	0.020699428	0.103173187				
AC114271.1	19	10333436	10336248	+		2813	
antisense	"novel transcript, antisense to ICAM3"					-	
7	9	1	48	37	7	0.136088999	
	0.141060928	0.016467692	0.825035663	0.573179421			
	0.116164745						
ENSG00000186566	1779.407057	2076.370555	2137.467338				
2959.487442	2152.140011	2597.27748	1997.748317				
2569.634978	-0.362744031	0.020757164	0.103426744				
GPATCH8 17	44395284	44503430	-	9734			
protein_coding	G-patch domain containing 8 [Source:HGNC						
Symbol;Acc:HGNC:29066]	-	1538	2240	2186	2946	2355	
2647	8.640914468	10.14590133	10.40306403				
14.63331148	10.54285339	12.69429642					
ENSG00000181404	167.759443	304.0399742	297.2507185				
397.8129759	405.7537856	370.8994664	256.3500452				
391.4887426	-0.608283281	0.020763831	0.103426744			WASHC1	
9	14521	73865	-	2270	protein_coding	WASH	
complex subunit 1 [Source:HGNC	Symbol;Acc:HGNC:24361]	-				145	
328	304	396	444	378	3.493307834		
6.370623576	6.203691348	8.434717571	8.523455747				
7.773417227							
ENSG00000188021	2354.41701	2275.665051	2350.627392				
2557.656153	3267.962922	2895.566998	2326.903151				
2907.062024	-0.321331868	0.020799835	0.103572336			UBQLN2	
X	56563639	56567868	+	4230			
protein_coding	ubiquilin 2 [Source:HGNC	Symbol;Acc:HGNC:12509]	-				
2035	2455	2404	2546	3576	2951	26.30987344	
	25.58851525	26.32670771	29.10175957	36.83967078			
	32.56678432						
ENSG00000237115	17.35442514	12.05036483	31.28954932				
4.018312888	5.483159264	0.981215519	20.23144643				
3.494229224	2.528742838	0.020925376	1	AL139805.1			
6	131825981	131828413	-	2433			
processed_pseudogene	T-cell activation leucine repeat-rich protein						
(TA-LRRP) pseudogene	-	15	13	32	4	6	
1	0.337166069	0.235578255	0.609270745				
0.079491208	0.107465172	0.019186861					
ENSG00000150787	902.4301071	793.4701766	692.2812786				
600.7377768	641.5296339	538.6873202	796.0605208				
593.651577	0.422483731	0.02092902	0.104181678			PTS	
11	112226365	112269955	+	3130			
protein_coding	6-pyruvoyltetrahydropterin synthase [Source:HGNC						
Symbol;Acc:HGNC:9689]	-	780	856	708	598	702	

549	13.62840333	12.05766976	10.47831321	
9.237576818	9.773528244	8.187928522		
ENSG00000225163	32.39492692	18.53902282	9.777984162	0
0	6.868508636	20.2373113	2.289502879	
3.147843597	0.020932013	1	LINC00618	14
96931367	96945394	+	700	sense_overlapping
	long intergenic non-protein coding RNA 618 [Source:HGNC			
Symbol;Acc:HGNC:20110]	-	28	20	10 0 0
7	2.187533457	1.259696474	0.661765947	0
0	0.466816326			
ENSG00000198712	42100.67842	39908.02747	54809.51242	
59006.91561	54849.86984	56740.74984	45606.07277	
56865.8451	-0.318328877	0.020993904	0.104470639	MT-C02
MT	7586	8269	+	684
	protein_coding mitochondrially encoded cytochrome c oxidase II [Source:HGNC			
Symbol;Acc:HGNC:7421]	-	36389	43053	56054 58738 60020
57827	2909.435489	2775.116857	3796.233902	
4152.066204	3823.829216	3946.577143		
ENSG00000077238	1102.584477	1046.527838	1283.84932	
725.3054763	936.7063744	937.0608211	1144.320545	
866.3575572	0.40126317	0.021031206	0.104622206	IL4R
16	27313668	27364778	+	5894
	protein_coding interleukin 4 receptor [Source:HGNC			
Symbol;Acc:HGNC:6015]	-	953	1129	1313 722 1025
955	8.842549138	8.445352249	10.31946186	
5.922816568	7.578309389	7.563786748		
ENSG00000103540	1242.57684	1000.180281	1308.294281	
915.1707603	1014.384464	702.5503119	1183.683801	
877.368512	0.431550383	0.021044199	0.104652789	CCP110
16	19523811	19553408	+	10142
	protein_coding centriolar coiled-coil protein 110 [Source:HGNC			
Symbol;Acc:HGNC:24342]	-	1074	1079	1338 911 1110
716	5.791291001	4.690636692	6.111319131	
4.34306158	4.769336557	3.295607268		
ENSG00000135926	2462.014446	2672.400139	2135.511741	
2634.004098	3330.105393	3277.259835	2423.308775	
3080.456442	-0.346222224	0.021071409	0.104753852	TMBIM1
2	218274192	218292586	-	5098
	protein_coding transmembrane BAX inhibitor motif containing 1			
[Source:HGNC Symbol;Acc:HGNC:23410]	-		2128	2883 2184
2622	3644	3340	22.82792858	24.93324297
19.84518988	24.86761143	31.14849982	30.58388637	
ENSG00000116525	111.0683209	304.9669253	283.5615407	
163.7462502	85.90282848	126.576802	233.198929	
125.4086269	0.897995813	0.021078227	0.104753852	TRIM62
1	33145402	33182059	-	3646
	protein_coding tripartite motif containing 62 [Source:HGNC			
Symbol;Acc:HGNC:25574]	-	96	329	290 163 94
129	1.439956198	3.978443471	3.684544358	
2.161584197	1.12349149	1.651654032		

ENSG00000126012	2003.857622	2054.123728	2251.869752		
2713.365778	2382.4327	2736.610084	2103.283701		
2610.802854	-0.31162914	0.021142301	0.105038137	KDM5C	
X	53191321	53225422	-	8727	
protein_coding	lysine demethylase 5C [Source:HGNC				
Symbol;Acc:HGNC:11114]	ARID	1732	2216	2303	2701
2789	10.85369528	11.19537739	12.22450881		2607
14.96445225	13.01771182	14.91865168			
ENSG00000213371	0	0	32.1465031	0	0
0	10.71550103	-5.840040276	0.021153366		1
NAP1L1P3	3	120805866	120806745		+
880	processed_pseudogene nucleosome assembly protein 1				
like 1 pseudogene 3	[Source:HGNC Symbol;Acc:HGNC:38007]				
0	0	32	0	0	0
1.758201	0	0			
ENSG00000235505	15.04050178	0	9.777984162	0	0
0	8.272828649	0	5.537708372	0.021181266	
1	CASP17P 11	104901549	104919073		-
4307	transcribed_unprocessed_pseudogene "caspase 17,				
pseudogene [Source:HGNC Symbol;Acc:HGNC:53657]"	-		13		0
10	0	0	0.165068116	0	
0.107554252	0	0			
ENSG00000134900	2541.844802	2389.680041	2235.247179		
2199.021728	1707.090251	1730.864176	2388.924007		
1878.992052	0.346419229	0.021184637	0.105214276	TPP2	
13	102597003	102679958	+	6752	
protein_coding	tripeptidyl peptidase 2 [Source:HGNC				
Symbol;Acc:HGNC:12016]	-	2197	2578	2286	2189
1764	17.79476824	16.83388815	15.68361773		1868
15.67525247	12.05599436	12.19585305			
ENSG00000198618	284.6125722	196.5136419	218.0490468		
137.6272164	134.337402	168.7690693	233.0584203		
146.9112292	0.66431266	0.021239523	0.105452612		
PPIAP22 21	18857779	18858276	+	498	
processed_pseudogene	peptidylprolyl isomerase A pseudogene 22				
[Source:HGNC Symbol;Acc:HGNC:17236]	-		246	212	223
137	147	172	27.01472041	18.76897156	
20.7433061	13.30124953	12.86312795	16.12297349		
ENSG00000148344	32.39492692	52.83621503	113.4246163		
25.11445555	15.53561792	33.36132766	66.21858607		
24.67046704	1.428375766	0.021250933	0.105475005	PTGES	
9	129738331	129753047	-	1896	
protein_coding	prostaglandin E synthase [Source:HGNC				
Symbol;Acc:HGNC:9599]	-	28	57	116	25
34	0.80763366	1.325471764	2.834145302		17
0.637533327	0.390723188	0.837117883			
ENSG00000178397	828.3845598	722.0949387	802.7724997		
1050.78882	1058.249738	933.135959	784.4173327		
1014.058172	-0.370957777	0.021270858	0.105520802		
FAM220A 7	6329409	6348981	-	2395	protein_coding family

with sequence similarity 220 member A [Source:HGNC
Symbol;Acc:HGNC:22422] - 716 779 821 1046 1158
951 16.34941498 14.34055297 15.87961962
21.11676483 21.06985949 18.53621401
ENSG00000275591 34.70885027 76.00999355 97.77984162
14.06409511 46.60685375 13.73701727 69.49956181
24.80265538 1.484458197 0.021273966 0.105520802 XKR5
8 6808517 6835644 - 5031 protein_coding XK
related 5 [Source:HGNC Symbol;Acc:HGNC:20782] - 30 82
100 14 51 14 0.326108148 0.718610391
0.920763592 0.134547284 0.441747862 0.129903171
ENSG00000146197 67.10377719 92.69511408 185.7816991
67.30674088 33.81281546 58.87293117 115.1935301
53.33082917 1.11426012 0.021283677 0.105534728 SCUBE3
6 35214419 35253079 + 7356
protein_coding "signal peptide, CUB domain and EGF like domain
containing 3 [Source:HGNC Symbol;Acc:HGNC:13655]" - 58
100 190 67 37 60 0.431202218
0.599366185 1.1965045 0.440386806 0.219188922
0.380763724
ENSG00000072954 55.53416043 78.79084697 45.95652556
178.8149235 90.47212786 93.21547435 60.09384432
120.8341752 -1.005234075 0.021309221 0.105627129
TMEM38A 19 16661127 16690029 + 3005
protein_coding transmembrane protein 38A [Source:HGNC
Symbol;Acc:HGNC:28462] - 48 85 47 178 99
95 0.873557454 1.247120469 0.724529107
2.86402459 1.435652449 1.475792044
ENSG00000135414 281.1416872 304.0399742 286.4949359
387.7671937 366.4578108 488.6453287 290.5588658
414.2901111 -0.511228692 0.021335623 0.105723716 GDF11
12 55743280 55757278 + 8657
protein_coding growth differentiation factor 11 [Source:HGNC
Symbol;Acc:HGNC:4216] - 243 328 293 386 401
498 1.535089032 1.670476553 1.567843315
2.155862725 2.018531601 2.685393671
ENSG00000112167 432.7036667 433.8131339 346.1406393
588.6828381 543.7466271 529.8563805 404.2191467
554.0952819 -0.455276424 0.02134453 0.10573358 SAYSD1
6 39104064 39115189 - 2925
protein_coding SAYSVFN motif domain containing 1 [Source:HGNC
Symbol;Acc:HGNC:21025] - 374 468 354 586 595
540 6.992628316 7.054300253 5.606345359
9.686635593 8.864407103 8.618147549
ENSG00000171490 5576.555277 6178.129354 5488.38251
6639.257469 7599.658741 6765.481007 5747.689047
7001.465739 -0.284649266 0.021355484 0.105753575 RSL1D1
16 11833850 11851585 - 6167
protein_coding ribosomal L1 domain containing 1 [Source:HGNC
Symbol;Acc:HGNC:24534] - 4820 6665 5613 6609 8316

6895	42.74327576	47.64969919	42.16222772	
51.8158969	58.76234653	52.19229065		
ENSG00000165629	2689.935896	2379.483579	2366.272167	
1781.117188	2056.184724	2111.575798	2478.563881	
1982.959237	0.321526873	0.021413442	0.105967178	
ATP5F1C 10	7788129	7807815 +	2326	protein_coding
synthase F1 subunit gamma [Source:HGNC Symbol;Acc:HGNC:833]				ATP
2325	2567	2420	1773	2250
2152	54.66482468			
48.6575364	48.19567991	36.8553247	42.15328312	
43.18954138				
ENSG00000235897	19.66834849	48.20145932	43.02313031	
71.32505376	88.64440811	86.34696571	36.96431271	
82.10547586	-1.14480918	0.021422416	0.105967178	
TM4SF19-AS1	3	196318330	196325570	+
antisense		TM4SF19 antisense RNA 1 [Source:HGNC		
Symbol;Acc:HGNC:41085]	-	17	52	44
71				97
88	0.435253614	1.073336883	0.954231797	
1.607157047	1.978923855	1.923213326		
ENSG00000101361	4358.274632	5076.911398	4850.857943	
6025.460176	5247.383416	6339.633471	4762.014658	
5870.825688	-0.301789433	0.021423176	0.105967178	NOP56
20	2652145	2658393 +	5398	protein_coding
ribonucleoprotein [Source:HGNC Symbol;Acc:HGNC:15911]				NOP56
5477	4961	5998	5742	6461
38.16431333				3767
44.73462681	42.57344582	53.7247988	46.3541803	
55.8744031				
ENSG00000167487	244.1189136	261.4002217	391.1193665	
420.918275	387.476588	529.8563805	298.8795006	
446.0837479	-0.576652538	0.021429124	0.105967178	KLHL26
19	18636965	18671714	+	4797
protein_coding		kelch like family member 26 [Source:HGNC		
Symbol;Acc:HGNC:25623]	-	211	282	400
419				424
540	2.405511567	2.591870793	3.862715557	
4.223237653	3.851720241	5.254968017		
ENSG00000108389	1920.556382	1593.429011	1854.883595	
1491.79866	1466.745103	1265.76802	1789.622996	
1408.103928	0.345562354	0.021433278	0.105967178	MTMR4
17	58489529	58517905	-	7475
protein_coding		myotubularin related protein 4 [Source:HGNC		
Symbol;Acc:HGNC:7452]	-	1660	1719	1897
1485				1605
1290	12.14483458	10.13908205	11.75597326	
9.605422519	9.356694234	8.056094448		
ENSG00000198055	792.5187479	1004.815037	924.0195033	
1346.134818	1155.118885	1067.562485	907.1177626	
1189.605396	-0.390312608	0.021451495	0.106009867	GRK6
5	177403204	177442901	+	4355
protein_coding		G protein-coupled receptor kinase 6 [Source:HGNC		
Symbol;Acc:HGNC:4545]	-	685	1084	945
1340				1264
1088	8.60195418	10.97425585	10.05185245	
14.87708538	12.64787347	11.66236882		

ENSG00000158417	3842.269725	3620.671156	3618.831938		
3045.881169	2971.872321	3125.17143	3693.924273		
3047.64164	0.277384003	0.021455781	0.106009867	EIF5B	
2	99337353	99401326	+ 7883		
protein_coding	eukaryotic translation initiation factor 5B				
[Source:HGNC Symbol;Acc:HGNC:30793]	-	3321	3906	3701	
3032	3252	3185	23.03944758	21.84613788	
21.74853533	18.59682854	17.97701613	18.8609666		
ENSG00000141644	1686.850123	1902.103741	1908.662508		
2177.925585	2524.080981	2172.41116	1832.538791		
2291.472576	-0.322253005	0.021489957	0.106089673	MBD1	
18	50266882	50281774	- 6734		
protein_coding	methyl-CpG binding domain protein 1 [Source:HGNC				
Symbol;Acc:HGNC:6916]	MBD	1458	2052	1952	2168
2214	11.84074763	13.43501644	13.42793274	2762	
15.56637119	17.8734817	15.34795582			
ENSG00000178971	329.7340776	357.8031404	419.4755205		
441.0098395	530.0387289	580.8795875	369.0042462		
517.3093853	-0.486848735	0.021491902	0.106089673	CTC1	
17	8224821	8248095	- 8566	protein_coding	CST
telomere replication complex component 1 [Source:HGNC					
Symbol;Acc:HGNC:26169]	-	285	386	429	439
592	1.819539561	1.986749867	2.319966308	580	
2.4779222	2.950587656	3.226188008			
ENSG00000064102	1079.445243	1062.286007	961.1758431		
737.360415	900.1519793	743.7613638	1034.302365		
793.7579193	0.38141095	0.021492753	0.106089673	INTS13	
12	26905181	26938326	- 3345		
protein_coding	integrator complex subunit 13 [Source:HGNC				
Symbol;Acc:HGNC:20174]	-	933	1146	983	734
758	15.2538768	15.10505996	13.61318829	985	
10.60965237	12.83212868	10.57837892			
ENSG00000119280	905.9009921	1018.719304	1186.069479		
796.6305301	811.5075711	775.1602604	1036.896592		
794.4327872	0.384732553	0.02160142	0.106565728		
C1orf198	1	230837119	230869589	-	5161
protein_coding	chromosome 1 open reading frame 198				
[Source:HGNC Symbol;Acc:HGNC:25900]	-	783	1099	1213	
793	888	790	8.297029147	9.388534172	
10.88753082	7.429174249	7.497866516	7.145609324		
ENSG00000110852	16.19746346	4.634755704	0	42.19228532	
41.12369448	18.64309487	6.944073055	33.98635823		
-2.313846157	0.021603139	0.106565728	CLEC2B	12	
9852984	9870136	- 2638	protein_coding	C-type lectin	
domain family 2 member B [Source:HGNC Symbol;Acc:HGNC:2053]	-				
14	5	0	42	45	19
0.083565915	0	0.769796116	0.743355091	0.290233779	
0.336221008					
ENSG00000081148	0	0	20.09156444	5.483159264	
0	0	8.524907902	-5.510518922	0.021605687	

1	IMPG2	3	101222546	101320560	-	
8337	protein_coding		interphotoreceptor	matrix	proteoglycan	
2 [Source:HGNC	Symbol;Acc:HGNC:18362]		-	0	0	0
20	6	0	0	0	0.11599023	
0.031361733		0				
ENSG00000241409	0	0	0	20.09156444	5.483159264	
0	0	8.524907902	-5.510518922	0.021605687		
1	AC064852.1	2	232760146	232767949		
-	851	3prime_overlapping_ncRNA		novel		
transcript	-	0	0	0	20	6
0	0	0	1.13632262	0.307241791	0	0
ENSG00000111011	1220.594568		1263.434405	1339.58383		
1058.825446	698.1889463		1081.299502	1274.537601		
946.1046316	0.430417899		0.021620459	0.106597677		RSRC2
12	122503458		122527000	-	8741	
protein_coding	arginine and serine rich coiled-coil 2 [Source:HGNC					
Symbol;Acc:HGNC:30559]	-	1055	1363	1370	1054	764
1102	6.60064008		6.874936538	7.260422646		
5.830163137	3.808823395		5.885271602			
ENSG00000142208	2222.523379		2451.785768	2949.040023		
1843.401037	2122.896495		2035.040987	2541.11639		
2000.446173	0.345292901		0.021623562	0.106597677		AKT1
14	104769349		104795751	-	11162	
protein_coding	AKT serine/threonine kinase 1 [Source:HGNC					
Symbol;Acc:HGNC:391]	-	1921	2645	3016	1835	2323
2074	9.41195971		10.44762597	12.51675567		
7.94868464	9.069133385		8.673867221			
ENSG00000163682	6249.906972		7857.764821	7264.064434		
7141.54658	9568.112917		10918.9663	7123.912076		
9209.541933	-0.370383898		0.021632213	0.106605946		RPL9
4	39452521		39458949	-	5022	
protein_coding	ribosomal protein L9 [Source:HGNC					
Symbol;Acc:HGNC:10369]	-	5402	8477	7429	7109	10470
11128	58.82644233		74.42167369	68.52611422		
68.44362803	90.85076133		103.4395076			
ENSG00000132467	1878.905761		1445.116829	1298.516297		
1910.707778	1954.746278		2141.012263	1540.846296		
2002.15544	-0.378496928		0.021682738	0.106820501		UTP3
4	70688479		70690551	+	2073	
protein_coding	"UTP3, small subunit processome component [Source:HGNC					
Symbol;Acc:HGNC:24477]"	-	1624	1559	1328	1902	2139
2182	42.84315406		33.1574231	29.67571754		
44.36213376	44.96453228		49.13619018			
ENSG00000243051	0	0	0	0	26.50193645	
0.981215519	0	9.161050655	-5.61767475	0.021687822		
1	RN7SL269P	1	169957942	169958246		
-	305	misc_RNA	"RNA, 7SL, cytoplasmic 269,			
pseudogene [Source:HGNC	Symbol;Acc:HGNC:46285]"	-	0	0		
0	0	29	1	0	0	0
4.143398994		0.153054533				

ENSG00000128602	156.1898262	185.3902282	204.359869		
365.6664728	257.7084854	229.6044316	181.9799745		
284.3264633	-0.642172572	0.021710132	0.106920999	SMO	
7	129188872	129213545	+ 4311		
protein_coding	"smoothened, frizzled class receptor [Source:HGNC				
Symbol;Acc:HGNC:11119]"	-	135 200	209 364	282	
234	1.712578385	2.045436167	2.245798146		
4.082484808	2.850556695	2.53386732			
ENSG00000143751	1366.371739	1296.804646	1094.156428		
1594.265638	1820.408876	1434.537089	1252.444271		
1616.403868	-0.368480099	0.021725971	0.106964547	SDE2	
1	225982702	225999331	- 3975		
protein_coding	SDE2 telomere maintenance homolog [Source:HGNC				
Symbol;Acc:HGNC:26643]"	-	1181 1399	1119 1587	1992	
1462	16.2482831	15.51724222	13.04053501		
19.30372003	21.83789627	17.16944573			
ENSG00000243155	8.09873173	27.80853423	5.866790497		
41.1877071	40.20983461	54.94806909	13.92468548		
45.44853693	-1.696193368	0.021740178	0.107000034		
AL162431.2	1	180944042	180976482	-	2424
antisense	novel transcript		-	7	30
6	41	44	56	0.157928364	0.545660601
	0.114662417	0.817810077	0.791003962	1.078453557	
ENSG00000155252	907.0579538	1019.646255	869.262792		
1285.860124	1270.26523	1060.693977	931.9890002		
1205.606443	-0.371158156	0.021760041	0.107063326	PI4K2A	
10	97640686	97676434	+ 4189		
protein_coding	phosphatidylinositol 4-kinase type 2 alpha				
[Source:HGNC Symbol;Acc:HGNC:30031]"	-	784	1100	889	
1280	1390	1081	10.2352962	11.5775398	
9.830913082	14.77409291	14.45982502	12.04651344		
ENSG00000279329	12.72657843	8.342560268	23.46716199		
23.10529911	52.09001301	62.79779325	14.84543356		
45.99770179	-1.631975545	0.021785904	0.107156086		
AC020910.5	19	34675717	34677581	-	1865
TEC	novel transcript		-	11	9
23	57	64	0.322558553	0.212763748	
0.596121604	0.596279964	1.33184786	1.601943423		
ENSG00000156140	93.71389573	110.3071858	147.6475608		
86.39372709	53.00387289	34.34254318	117.2228808		
57.91338106	1.019228575	0.021794854	0.107165626		
ADAMTS3	4	72280969	72569386	-	7172
protein_coding	ADAM metalloproteinase with thrombospondin type 1 motif				
3 [Source:HGNC Symbol;Acc:HGNC:219]"	-	81	119	151	
86	58	35	0.617645741	0.731544313	
0.975302017	0.57977487	0.352408448	0.227810533		
ENSG00000254999	2272.272731	2550.042588	3037.041881		
2081.486076	1855.135551	2228.340445	2619.785733		
2054.987357	0.350658338	0.021820271	0.107256104	BRK1	
3	10115592	10127190	+ 1233		

protein_coding	"BRICK1, SCAR/WAVE actin nucleating complex subunit [Source:HGNC Symbol;Acc:HGNC:23057]"				-	1964	2751	3106		
	2072	2030	2271	87.11102413		98.36972828				
116.6919321		81.25084588		71.74498664		85.98052517				
ENSG00000266066	34.70885027			11.12341369		21.51156516				
79.36167954	24.67421669			86.34696571		22.44794304				
63.46095398	-1.506208625			0.021829973		0.107269304				
POLRMTP1	17	62136972		62140639		-		3668		
	processed_pseudogene RNA polymerase mitochondrial									
pseudogene 1	[Source:HGNC Symbol;Acc:HGNC:28865]				-			30		
	12	22	79	27	88	0.447287375				
0.144240054	0.277840665			1.041355418		0.320769476				
1.119951926										
ENSG00000105516	112.2252825			136.2618177		215.1156516				
290.3231062	222.9818101			246.2850954		154.5342506				
253.1966705	-0.710137023			0.021867482		0.107419088		DBP		
	19	48630030		48637438		-	6544			
protein_coding	D-box binding PAR bZIP transcription factor [Source:HGNC Symbol;Acc:HGNC:2697]				TF_bZIP	97	147	220		
	289	244	251	0.810630904		0.990394003				
1.557334289	2.135284603			1.624819541		1.790508828				
ENSG00000105298	551.8707193			910.2660203		846.7734284				
929.2348554	988.7963874			1339.359184		769.6367227				
1085.796809	-0.495366592			0.021876914		0.107430899		CACTIN		
	19	3610641	3626815	-	5952					
protein_coding	"cactin, spliceosome C complex subunit [Source:HGNC Symbol;Acc:HGNC:29938]"				-	477	982	866	925	1082
	1365	4.382785027		7.274154536		6.739961648				
7.514152878	7.921782896			10.70571714						
ENSG00000165916	4768.996027			4930.453118		5549.98381				
4023.335779	4021.897321			4433.131717		5083.144319				
4159.454939	0.289419839			0.021904429		0.107531474		PSMC3		
	11	47418769		47426473		-	2276			
protein_coding	"proteasome 26S subunit, ATPase 3 [Source:HGNC Symbol;Acc:HGNC:9549]"				-	4122	5319	5676	4005	4401
	4518	99.04451791		103.0366406		115.5240976				
85.08078322	84.26315355			92.66591208						
ENSG00000166086	1183.571794			1112.341369		1447.141656				
1012.614848	879.1332021			985.1403815		1247.68494				
958.9628105	0.379951979			0.021937331		0.107658421		JAM3		
	11	134068925		134152001		+	5451			
protein_coding	junctional adhesion molecule 3 [Source:HGNC Symbol;Acc:HGNC:15532]				-	1023	1200	1480	1008	962
	1004	10.26346875		9.705971729		12.57731648				
8.940989124	7.690551553			8.598121278						
ENSG00000111642	650.2124618			799.9588346		750.9491836				
519.3669408	475.2071363			630.921579		733.7068266				
541.8318854	0.438226781			0.021977658		0.107802558		CHD4		
	12	6570082	6614524	-	12713	protein_coding				
chromodomain helicase DNA binding protein 4	[Source:HGNC									

Symbol;Acc:HGNC:1919]	-	562	863	768	517	520
643	2.417591841	2.992931015		2.798437609		
1.966272533	1.782435792	2.361070537				
ENSG00000213096	360.9720428	294.7704628		306.0509043		
161.7370937	280.5549824	174.6563625		320.5978033		
205.6494795	0.63863814	0.021980806		0.107802558		ZNF254
19	24033405	24129961		+ 7602		
protein_coding	zinc finger protein 254	[Source:HGNC				
Symbol;Acc:HGNC:13047]	zf-C2H2	312	318	313	161	307
178	2.244509467	1.844306992		1.907299646		
1.02399828	1.75982348	1.093045329				
ENSG00000274204	15.04050178	5.561706845		0.977798416		0
0	0	7.193335682	0	5.334915412		
0.02199171	1	AL138689.1	13	106506046		
106506713	-	668	sense_intronic	"novel transcript,		
sense intronic to EFNB2"		-	13	6	1	0
0	0	1.064293972	0.396012364	0.069346731		
0	0	0				
ENSG00000185453	144.6202095	346.6797267		348.0962362		
479.1838119	434.0834418	431.7348286		279.7987241		
448.3340274	-0.67748011	0.022051731		0.108115717		ZSWIM9
19	48170692	48197620		+ 3751		
protein_coding	zinc finger SWIM-type containing 9	[Source:HGNC				
Symbol;Acc:HGNC:34495]	-	125	374	356	477	475
440	1.822458559	4.396008222		4.396482913		
6.148547484	5.518297919	5.475851326				
ENSG00000149136	9580.799637	10887.9681		11905.67352		
9267.234098	7988.049188	9078.205986		10791.48042		
8777.829758	0.298064432	0.022074312		0.10819173		SSRP1
11	57325985	57335877		- 6323		
protein_coding	structure specific recognition protein 1	[Source:HGNC				
Symbol;Acc:HGNC:11327]	HMG	8281	11746	12176	9225	8741
9252	71.62329812	81.90318161		89.20391463		
70.54145439	60.24160528	68.30594091				
ENSG00000032219	278.8277638	298.4782674		287.4727344		
154.7050462	237.6035681	175.637578		288.2595885		
189.3153974	0.605769123	0.022094776		0.108240336		ARID4A
14	58298385	58373887		+ 7568		
protein_coding	AT-rich interaction domain 4A	[Source:HGNC				
Symbol;Acc:HGNC:9885]	ARID	241	322	294	154	260
179	1.741528684	1.875895779		1.799569661		
0.983877013	1.497100041	1.104124237				
ENSG00000205918	3.470885027	4.634755704		5.866790497		
46.21059821	10.05245865	14.71823279		4.657477076		
23.66042989	-2.337569405	0.02209839		0.108240336		PDPK2P
16	2616121 2643296	-	4426			
transcribed_unprocessed_pseudogene	"3-phosphoinositide dependent	protein kinase 2, pseudogene [Source:HGNC Symbol;Acc:HGNC:49897]"				
-	3	5	6	46	11	15
0.037068461	0.049807249	0.062797492		0.50251339		

0.108302847	0.158207069				
ENSG00000143248	24.29619519	31.51633879	30.3117509		
53.24264577	74.02265007	67.70387084	28.70809496		
64.98972223	-1.176635514	0.02210826	0.108246237	RGS5	
1	163111121	163321791	- 6821		
protein_coding	regulator of G protein signaling 5 [Source:HGNC				
Symbol;Acc:HGNC:10001]	-	21 34	31 53	81	
69	0.168370483	0.219768187	0.210531023		
0.375689482	0.51748238	0.472222936			
ENSG00000269713	1189.356603	1219.867701	972.9094241		
1544.036727	1578.236008	1266.749236	1127.377909		
1463.007324	-0.376156341	0.022122528	0.108246237	NBPF9	
1	149054027	149103561	- 9046		
protein_coding	NBPF member 9 [Source:HGNC Symbol;Acc:HGNC:31991]				
-	1028 1316	995 1537	1727 1291		
6.214858485	6.414063628	5.095290541	8.215206805		
8.319444941	6.662169758				
ENSG00000118246	1365.214777	1179.081851	1125.445977		
1570.155761	1520.662836	1543.452012	1223.247535		
1544.75687	-0.337197505	0.022134207	0.108246237		
FASTKD2 2	206765357	206792509	+ 6079		
protein_coding	FAST kinase domains 2 [Source:HGNC				
Symbol;Acc:HGNC:29160]	-	1180 1272	1151 1563	1664	
1573	10.61560075	9.225479028	8.77092982		
12.43162929	11.92833359	12.07932357			
ENSG00000166925	430.3897434	858.3567564	639.4801642		
847.8640194	1005.245865	915.4740797	642.7422213		
922.8613214	-0.520471385	0.02213457	0.108246237		
TSC22D4 7	100463359	100479279	- 3715		
protein_coding	TSC22 domain family member 4 [Source:HGNC				
Symbol;Acc:HGNC:21696]	TSC22	372 926	654 844	1100	
933	5.476194119	10.98970732	8.154951566		
10.98461513	12.90305251	11.72381243			
ENSG00000067177	338.989771	507.042274	335.3848567		
562.5638043	580.3010222	534.7624581	393.8056339		
559.2090949	-0.50460531	0.022134999	0.108246237	PHKA1	
X	72578814	72714319	- 6350		
protein_coding	phosphorylase kinase regulatory subunit alpha 1				
[Source:HGNC Symbol;Acc:HGNC:8925]	-		293 547	343	
560	635 545	2.523414579	3.797935274		
2.502204787	4.263983527	4.357712735	4.006533818		
ENSG00000228485	2.313923351	8.342560268	9.777984162	0	
0	0 6.81148926	0	5.264014799		
0.022228435	1 GRK5-IT1	10	119208531		
119211760	+ 400	sense_intronic	GRK5 intronic		
transcript 1 [Source:HGNC Symbol;Acc:HGNC:49478]	-			2	
9	10 0	0 0	0.273441682		
0.992010973	1.158090408	0 0	0		
ENSG00000115310	8051.296301	8827.355714	7764.697223		
10447.61351	9521.506063	9752.301048	8214.449746		

9907.140207	-0.270243322	0.022254392	0.108795295	RTN4
2	54972187	55112621	- 6644	
protein_coding	reticulon 4 [Source:HGNC Symbol;Acc:HGNC:14085]			-
6959	9523 7941	10400 10419	9939 57.28117598	
	63.1943307	55.36662209	75.68414899	68.3368588
	69.83274322			
ENSG00000166272	1071.346512	926.9511408	1147.935341	
1379.285899	1299.508746	1333.471891	1048.744331	
1337.422178	-0.350998029	0.022275224	0.108862326	WBP1L
10	102743901	102834516	+ 7880	
protein_coding	WW domain binding protein 1 like [Source:HGNC			
Symbol;Acc:HGNC:23510]	-	926 1000	1174 1373	1422
1359	6.426573545	5.595098551	6.901513395	
8.424527189	7.863791256	8.050804396		
ENSG00000163590	323.9492692	323.5059482	305.0731058	
484.206703	378.3379893	471.9646649	317.5094411	
444.8364524	-0.486186254	0.022287796	0.108888954	PPM1L
3	160755602	161078907	+ 12447	
protein_coding	"protein phosphatase, Mg2+/Mn2+ dependent 1L			
[Source:HGNC Symbol;Acc:HGNC:16381]"	-	280	349	312
482	414 481	1.230234932	1.236216954	
1.161160785	1.872335041	1.449419999	1.803958003	
ENSG00000133065	1173.159139	1303.293304	1352.29521	
1724.860807	1643.12006	1470.842064	1276.249218	
1612.940977	-0.33740798	0.022318699	0.108969688	
SLC41A1 1	205789093	205813748	- 6357	
protein_coding	solute carrier family 41 member 1 [Source:HGNC			
Symbol;Acc:HGNC:19429]	-	1014 1406	1383 1717	1798
1499	8.723292928	9.75140215	10.07795522	
13.059282	12.32525955	11.00767142		
ENSG00000166012	2577.710613	2635.322093	2216.669009	
2009.156444	2029.682788	1956.543746	2476.567239	
1998.460993	0.309376112	0.022324508	0.108969688	TAF1D
11	93729948	93784391	- 8420	
protein_coding	"TATA-box binding protein associated factor, RNA			
polymerase I subunit D [Source:HGNC Symbol;Acc:HGNC:28759]"	-			
2228	2843 2267	2000 2221	1994 14.47097548	
	14.88670993	12.47216605	11.48468587	11.49463181
	11.05500894			
ENSG00000108423	197.8404465	223.3952249	219.0268452	
139.6363729	156.270039	107.9337071	213.4208389	
134.613373	0.664883214	0.022325706	0.108969688	TUBD1
17	59859482	59892945	- 3330	
protein_coding	tubulin delta 1 [Source:HGNC Symbol;Acc:HGNC:16811]			
-	171 241	224 139	171 110	
2.808319979	3.190852779	3.116063079	2.018235232	
2.237744378	1.54203591			
ENSG00000099795	1290.012268	1862.244842	1893.995532	
2111.623423	1952.918558	2664.981351	1682.084214	
2243.174444	-0.414660362	0.022341945	0.109014143	NDUFB7

19	14566078	14572062	-	531	
protein_coding	NADH:ubiquinone oxidoreductase subunit B7 [Source:HGNC Symbol;Acc:HGNC:7702]	-	1115 2009	1937 2102	2137
2716	114.8352074	166.8089596		168.9808753	
191.3988866	175.3753694	238.7708362			
ENSG00000125734	857.3086017	799.9588346		961.1758431	
1310.97458	1029.006222	1082.280718		872.8144264	
1140.75384	-0.38606207	0.0223723		0.109127427	GPR108
19	6729914 6737603	-	3213		protein_coding G
protein-coupled	receptor 108 [Source:HGNC Symbol;Acc:HGNC:17829]				
-	741 863	983 1305		1126 1103	
12.6125295	11.84224463	14.17246027		19.63816943	
15.27166057	16.02547174				
ENSG00000127054	2392.596745	2804.954152		2775.969703	
3541.138233	2806.463684	3771.792457		2657.8402	
3373.131458	-0.343496188	0.022386089		0.109159853	INTS11
1	1311585 1324691	-	8220		protein_coding
integrator complex	subunit 11 [Source:HGNC Symbol;Acc:HGNC:26052]				
-	2068 3026	2839 3525		3071 3844	
13.75857418	16.2304688	15.9991176		20.73425905	
16.28045719	21.8301941				
ENSG00000278959	0 3.707804563	0.977798416		9.041203998	
23.76035681	11.77458623	1.56186766		14.85871568	
-3.208860031	0.022388357	1		AC006378.2	7
93954044	93956519	-		2476	TEC tec
-	0 4 1	9		26	12 0
0.07122678	0.018709053	0.17574909		0.457595037	
0.226243777					
ENSG00000267787	86.77212568	64.88657986		82.13506696	
158.7233591	153.5284594	104.0088451		77.9312575	
138.7535545	-0.83418435	0.022402174		0.109203453	
AC027097.2	18 57639455	57738603		+	2670
antisense	"novel transcript, antisense to ATP8B1"				-
75 70	84 158 168	106		1.536189226	
1.155901259	1.457372199	2.861192264		2.741931609	
1.853278296					
ENSG00000164062	2595.065039	2942.142921		2893.305513	
2094.545593	2238.9567	2469.719463		2810.171158	
2267.740585	0.309595571	0.022419245		0.109241451	APEH
3	49674002	49683963		+	4669
protein_coding	acylaminoacyl-peptide hydrolase [Source:HGNC Symbol;Acc:HGNC:586]	-	2243 3174	2959 2085	2450
2517	26.27242206	29.97208851		29.35780267	
21.5915292	22.86655858	25.16548921			
ENSG00000100416	894.3313753	1016.865402		1208.558842	
784.5755914	606.8029586	900.7558469		1039.91854	
764.044799	0.445476699	0.022424261		0.109241451	TRMU
22	46330875	46357340		+	9219
protein_coding	tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase [Source:HGNC Symbol;Acc:HGNC:25481]	-			773

1097	1236	781	664	918	4.585539002	
5.246344084	6.210650804		4.096080049		3.138649806	
4.648415087						
ENSG00000253390	19.66834849		12.97731597		15.64477466	0
0	4.906077597		16.09681304		1.635359199	
3.305456755	0.022431077		1	AC104561.1	8	
23458601	23484971		+	630	lincRNA novel	
transcript	-	17	14	16	0	5
1.475717015	0.979763924			1.176472795	0	0
0.370489147						
ENSG00000234383	3.470885027		7.415609127		2.933395248	
71.32505376	12.79403828		1.962431039		4.606629801	
28.69384103	-2.630137012		0.022439073		0.109278786	
CTBP2P8 1	68161761		68163090		-	1330
processed_pseudogene	C-terminal binding protein 2 pseudogene					8
[Source:HGNC Symbol;Acc:HGNC:45200]			-		3	8
71	14	2	0.12335715		0.265199258	3
0.10448936	2.581118385		0.458706604		0.070197944	
ENSG00000064763	217.508795		235.4455898		219.0268452	
133.6089035	166.3224977		134.4265262		223.9937433	
144.7859758	0.629141899		0.022458253		0.109337362	FAR2
12	29149103		29340980		+	5411
protein_coding	fatty acyl-CoA reductase 2					
Symbol;Acc:HGNC:25531]	-		188	254	224	133
137	1.900093744		2.069617751		1.917665876	182
1.188434699	1.465724853		1.181922687			
ENSG00000131446	1774.779211		2500.914178		2979.351774	
2948.437082	3283.49854		3359.681939		2418.348388	
3197.205853	-0.402378216		0.022577021		0.109880586	MGAT1
5	180784782		180815652		-	11576
protein_coding	"mannosyl (alpha-1,3-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase					
[Source:HGNC Symbol;Acc:HGNC:7044]"						
-	1534	2698	3047	2935	3593	3424
7.247054949	10.27584122		12.19316335		12.25888029	
13.52562358	13.80769781					
ENSG00000143537	1329.348965		1810.335578		2202.002033	
1247.686152	1062.819037		1576.81334		1780.562192	
1295.772843	0.459090157		0.022611265		0.110012223	ADAM15
1	155050566		155062775		+	6584
protein_coding	ADAM metalloproteinase domain 15					
Symbol;Acc:HGNC:193]	-		1149	1953	2252	1242
1607	9.543878882		13.07815195		15.84459051	1163
9.120801207	7.697478602		11.39389179			
ENSG00000131238	4598.922661		4682.957164		4853.791338	
3741.049299	3810.795689		4141.710708		4711.890387	
3897.851898	0.273672441		0.02263538		0.110065042	PPT1
1	40071461		40097727		-	5088
protein_coding	palmitoyl-protein thioesterase 1					
Symbol;Acc:HGNC:9325]	-		3975	5052	4964	3724
4221	42.72526284		43.77742344		45.19466025	4170

35.38863294	35.71474471	38.72703833				
ENSG00000163399	9861.941324	10598.75934	12490.39697			
9560.570939	7404.092727	9300.941909	10983.69921			
8755.201858	0.327246576	0.022636521	0.110065042	ATP1A1		
1	116372668	116410261	+ 7261			
protein_coding	ATPase Na+/K+ transporting subunit alpha 1					
[Source:HGNC Symbol;Acc:HGNC:799]		-	8524 11434	12774		
9517	8102 9479	64.20098881	69.42816854			
81.49536906	63.37308499	48.62441617	60.94135725			
ENSG00000157657	406.0935482	445.8634987	717.7040375			
455.0739346	272.3302435	291.4210093	523.2203615			
339.6083958	0.624653705	0.022648827	0.110089862	ZNF618		
9	113876282	114056591	+ 10384			
protein_coding	zinc finger protein 618 [Source:HGNC					
Symbol;Acc:HGNC:29416]	zf-C2H2	351 481	734 453	298		
297	1.848575317	2.042275629	3.274415868			
2.109282449	1.250576267	1.335173812				
ENSG00000248926	0 0	0 11.05036044	13.70789816			
0	0	8.252752868	-5.465359099	0.022654535		
1	AC114801.2	4	77958000	77958780		
-	781	processed_pseudogene	FUS interacting			
protein (serine/arginine-rich) 1 (FUSIP1)	pseudogene	-	0	0		
0	0	11 15	0 0	0 0		
0.680993345	0.836948669	0				
ENSG00000182327	6.941770054	24.10072966	43.02313031			
60.27469332	76.7642297	63.77900877	24.68854334			
66.9393106	-1.431161635	0.022657611	0.110097554	GLTPD2		
17	4788959 4790390	+ 1023	protein_coding			
glycolipid transfer protein domain containing 2	[Source:HGNC					
Symbol;Acc:HGNC:33756]	-	6 26	44 60	84		
65	0.320752706	1.120551115	1.992413605			
2.835808064	3.578180545	2.966086135				
ENSG00000132768	1707.675433	2168.138718	2083.688425			
2797.750348	2240.784419	2541.348195	1986.500859			
2526.627654	-0.346437232	0.022692853	0.110233758	DPH2		
1	43970000	43973369	+ 2930			
protein_coding	DPH2 homolog [Source:HGNC Symbol;Acc:HGNC:3004]			-		
1476	2339 2131	2785 2452	2590 27.54948279			
35.19626342	33.69134006	45.95775395	36.46795777			
41.2646513						
ENSG00000130921	363.2859662	329.9946061	412.6309316			
234.0667257	256.7946256	280.6276386	368.637168			
257.1629966	0.519321288	0.022715736	0.110309864			
C12orf65	12	123232916	123257959	+ 7090		
protein_coding	chromosome 12 open reading frame 65					
[Source:HGNC Symbol;Acc:HGNC:26784]		-	314 356	422		
233	281 286	2.422022234	2.213796624			
2.757202551	1.588952455	1.727104765	1.883067265			
ENSG00000279118	46.27846703	50.05536161	59.64570339			
26.11903377	13.70789816	21.58674143	51.99317734			

20.47122445	1.347951449	0.022788194	0.110626586	
AC093535.2	5	126496279	126498604	2326
TEC	tec	-	40 54 61 26	15
22	0.940470102	1.023571081	1.214849783	
0.540461614	0.281021887	0.441528769		
ENSG00000223343	2.313923351	5.561706845	18.57816991	0
0	0.981215519	8.817933368	0.32707184	
4.674472718	0.022857029	1	AC137630.1 3	
48985049	48989988	-	782 antisense	novel
transcript	-	2	6 19 0 0	1
0.139867868	0.338281662	1.125509859	0	0
0.059695182				
ENSG00000144824	517.161869	568.2210493	490.8548049	
301.3734666	468.8101171	335.5757077	525.4125744	
368.5864305	0.510820756	0.022870775	0.110992234	PHLDB2
3	111732497	111976517	+ 12309	
protein_coding	pleckstrin homology like domain family B member			2
[Source:HGNC Symbol;Acc:HGNC:29573]		-	447 613	502
300	513 342	1.986001006	2.19569322	
1.88922377	1.178418901	1.816156173	1.297028055	
ENSG0000010610	3.470885027	2.780853423	20.53376674	0
0	0.981215519	8.92850173	0.32707184	
4.691399273	0.022936612	1	CD4 12 6786858	
6820808 +	4583	protein_coding	CD4 molecule [Source:HGNC	
Symbol;Acc:HGNC:1678]	-	3 3	21 0 0	
1	0.035798606	0.0288606	0.212261825	0
0	0.010185824			
ENSG00000198743	7237.952243	4932.30702	5094.329748	
8416.356344	6520.390225	7437.613638	5754.863004	
7458.120069	-0.374221157	0.022946756	0.111268902	SLC5A3
21	34073570	34106262	+ 11576	
protein_coding	solute carrier family 5 member 3			
[Source:HGNC Symbol;Acc:HGNC:11038]	-	6256 5321	5210 8378	7135
7580	29.55513413	20.26603082	20.8488287	
34.99315129	26.85926086	30.56727495		
ENSG00000119900	1349.017314	1490.537434	1739.503382	
1235.631213	1179.793102	1178.439839	1526.35271	
1197.954718	0.349918207	0.02295255	0.111268902	OGFRL1
6	71288803	71308950	+ 9075	
protein_coding	opioid growth factor receptor like 1			
[Source:HGNC Symbol;Acc:HGNC:21378]	-	1166 1608	1779 1230	1291
1201	7.02662262	7.81220028	9.080960157	
6.553294635	6.199236519	6.17792184		
ENSG00000167635	3269.573696	2584.339781	2726.101984	
2285.415455	2369.638662	2221.471936	2860.005154	
2292.175351	0.318902509	0.022956245	0.111268902	ZNF146
19	36214602	36238774	+ 4146	
protein_coding	zinc finger protein 146			
[Source:HGNC Symbol;Acc:HGNC:12931]	zf-C2H2	2826 2788	2788 2275	2593
2264	37.27670978	29.64813842	31.15056495	

26.53098168	27.25409822	25.49136906				
ENSG00000272070	47.4354287	15.75816939	32.26734773			
73.33421021	82.24738897	65.7414398	31.82031528			
73.77434633	-1.221342581	0.022956899	0.111268902			
AC005618.1	5	141326210	141329357	+		3148
lincRNA	novel transcript	-	41	17		33
73	90	67	0.712268677	0.238093838		
0.485603348	1.121216171	1.245851799	0.993541735			
ENSG00000186312	171.230328	196.5136419	219.0268452			
380.7351461	249.4837465	268.8530523	195.5902717			
299.6906483	-0.614066116	0.022977078	0.111331406			CA5BP1
X	15674932	15703724	+	2409		
transcribed_unprocessed_pseudogene	carbonic anhydrase 5B					
pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:29544]	-					148
212	224	379	273	274	3.359847983	
3.880011554	4.307384829	7.606828526	4.938379314			
5.309575475						
ENSG00000105656	492.8656739	725.8027433	702.0592628			
752.4290883	964.1221707	917.4365107	640.24256			
877.9959232	-0.454550524	0.023002379	0.111418684			ELL
19	18442663	18522127	-	4929		
protein_coding	elongation factor for RNA polymerase II [Source:HGNC					
Symbol;Acc:HGNC:23114]	-	426	783	718	749	1055
935	4.726563465	7.003851057	6.74789136			
7.347239824	9.327220401	8.855209259				
ENSG00000118680	4207.869615	4055.411241	3892.615495			
2983.597319	3648.128631	3258.61674	4051.96545			
3296.780897	0.297386891	0.02302392	0.111481684			MYL12B
18	3261479	3278431	+	1932	protein_coding	myosin
light chain 12B [Source:HGNC Symbol;Acc:HGNC:29827]	-					3637
4375	3981	2970	3992	3321	102.9510764	
99.84007377	95.45254479	74.32767425	90.04135217			
80.24311683						
ENSG00000184517	492.8656739	393.9542349	484.010216			
258.1766031	406.6676454	268.8530523	456.9433749			
311.2324336	0.552611098	0.02302997	0.111481684			ZFP1
16	75148492	75172236	+	3761		
protein_coding	ZFP1 zinc finger protein [Source:HGNC					
Symbol;Acc:HGNC:23328]	zf-C2H2	426	425	495	257	445
274	6.194424706	4.982181613	6.096833309			
3.303931286	5.156028097	3.400895326				
ENSG00000174132	173.5442514	233.5916875	181.8705054			
232.0575693	321.6786769	349.3127249	196.3354814			
301.0163237	-0.615447681	0.023046874	0.111528194			
FAM174A 5	100535305	100586741	+	1416		
protein_coding	family with sequence similarity 174 member A					
[Source:HGNC Symbol;Acc:HGNC:24943]	-			150	252	186
231	352	356	5.793255978	7.846414476		
6.084881804	7.887691985	10.83273222	11.73634265			
ENSG00000170004	2763.981443	2968.097553	3960.083585			

2735.466499	2237.12898	2535.460902	3230.720861	
2502.68546	0.368643847	0.023063555	0.111573595	CHD3
17	7884806	7912760 +	9758	protein_coding
chromodomain helicase DNA binding protein 3 [Source:HGNC				
Symbol;Acc:HGNC:1918]	-	2389	3202	4050 2723 2448
2584	13.3890588	14.46753267	19.22634209	
13.49236384	10.93224101	12.36168667		
ENSG00000177548	520.6327541	774.0042026	799.8391044	
885.0334136	894.66882	1096.998951	698.158687	
958.9003948	-0.456586472	0.02317876	0.112095447	RABEP2
16	28904421	28936526	-	4566
protein_coding "rabaptin, RAB GTPase binding effector protein 2				
[Source:HGNC Symbol;Acc:HGNC:24817]"				
-		450	835	818
881	979	1118	5.389783485	8.062774736
8.298887022	9.329131564	9.343409479	11.43015006	
ENSG00000183684	2306.981581	3073.769983	2851.260182	
2114.637157	2260.889337	2164.561436	2744.003915	
2180.02931	0.332282788	0.023190147	0.112115045	ALYREF
17	81887844	81891586	-	1574
protein_coding Aly/REF export factor [Source:HGNC				
Symbol;Acc:HGNC:19071]				
-		1994	3316	2916 2105 2474
2206	69.2811581	92.88460784	85.81935525	
64.66191891	68.49416332	65.42546469		
ENSG00000197361	12.72657843	13.90426711	12.71137941	
35.16023777	46.60685375	33.36132766	13.11407499	
38.37613973	-1.548914764	0.023208278	0.112167227	FBXL22
15	63597353	63602428	+	3614
protein_coding F-box and leucine rich repeat protein 22 [Source:HGNC				
Symbol;Acc:HGNC:27537]				
-		11	15	13 35 51
34	0.166455922	0.182994092	0.166631713	
0.468253587	0.614951161	0.439174186		
ENSG00000177337	53.22023708	52.83621503	52.80111447	
78.35710132	106.9216057	117.7458623	52.95252219	
101.0081898	-0.932147624	0.023225159	0.112213338	
DLGAP1-AS1	18	3593732	3598352 +	2105 antisense
DLGAP1 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:31676]				
-	46	57	54	78 117 120
1.195089537	1.193869105	1.188349302	1.791610995	
2.422101615	2.661185704			
ENSG00000105821	1213.652798	998.3263787	1134.246163	
919.1890732	890.0995206	776.1414759	1115.408446	
861.8100232	0.37163793	0.023235165	0.112225853	DNAJC2
7	103312474	103344873	-	6564
protein_coding DnaJ heat shock protein family (Hsp40) member C2				
[Source:HGNC Symbol;Acc:HGNC:13192]				
MYB			1049	1077 1160
915	974	791	8.739802699	7.234043049
8.186379482	6.739904426	6.466197752	5.62540697	
ENSG00000111912	465.0985936	527.4351991	383.2969791	
505.3028457	798.7135329	647.6022428	458.6102573	
650.5395405	-0.504648677	0.023242431	0.112225853	NCOA7

6	125781161	125932030	+	7820		
protein_coding	nuclear receptor coactivator 7				[Source:HGNC	
Symbol;Acc:HGNC:21081]	-	402 569	392	503		874
660	2.811344149	3.208037759		2.322104552		
3.110014748	4.870384822	3.939882032				
ENSG00000012983	1498.26537	1265.288307		1101.978815		
1047.775086	1020.781483	892.9061227		1288.510831		
987.1542305	0.383791305	0.023282144		0.112382109		MAP4K5
14	50418501	50561126	-	7620		
protein_coding	mitogen-activated protein kinase	kinase kinase kinase				
5 [Source:HGNC	Symbol;Acc:HGNC:6867]	-	1295	1365		1127
1043	1117 910	9.294146415		7.897900135		
6.851275011	6.618057766	6.387880742		5.574840633		
ENSG00000051108	1684.5362	1852.975331		1669.101896		
1977.009941	2385.17428	2139.049832		1735.537809		
2167.078018	-0.320338467	0.023309021		0.112476325		
HERPUD1 16	56932048	56944863	+	5155		
protein_coding	homocysteine inducible ER protein with ubiquitin like	domain 1				
[Source:HGNC	Symbol;Acc:HGNC:13744]	-	1456	1999		
1707	1968 2610	2180 15.44640501		17.09692799		
15.33936238	18.45855249	22.06329823		19.74121416		
ENSG00000176076	3.470885027	9.269511408		16.62257307		
38.17397244	38.38211485	27.47403455		9.787656503		
34.67670728	-1.814318504	0.023341636		0.112598168		KCNE5
X	109623700	109625172	-	1473		
protein_coding	potassium voltage-gated channel subfamily E regulatory	subunit 5				
[Source:HGNC	Symbol;Acc:HGNC:6241]	-	3	10		
17	38 42	28 0.111381541		0.299316881		
0.534624221	1.247332006	1.242525016		0.887363009		
ENSG00000226479	809.873173	769.3694469		851.6624205		
1068.871228	1071.043776	968.4597177		810.3016801		
1036.124907	-0.354791131	0.023363795		0.112669508		
TMEM185B	2	120221278	120223408	-		2131
protein_coding	transmembrane protein 185B					
[Source:HGNC	Symbol;Acc:HGNC:18896]	-	700 830	871 1064		1172
987	17.9642588	17.17230528		18.93377279		
24.14123006	23.96639759	21.62119725				
ENSG00000183690	19.66834849	8.342560268		4.888992081		0
1.827719755	0	10.96663361		0.609239918		
4.126905295	0.023371813	1	EFHC2	X		44147882
44343672	-	3319	protein_coding	EF-hand domain		
containing 2 [Source:HGNC	Symbol;Acc:HGNC:26233]	-				17
9	5 0	2 0		0.28011501		
0.119555405	0.069785502	0	0.026259191	0		
ENSG00000128342	59.00504546	104.7454789		162.3145371		
37.16939421	60.31475191	57.89171565		108.6883538		
51.79195392	1.070654978	0.023385617		0.112739176		LIF
22	30240447	30246851	-	3969		
protein_coding	"LIF, interleukin 6 family cytokine					
[Source:HGNC	Symbol;Acc:HGNC:6596]"	-	51 113	166 37		66

59	0.702722388	1.2552531	1.937445278		
0.45073558	0.72463855	0.693932054			
ENSG00000167081	285.7695339	320.7250947	373.518995		
193.8835969	252.2253262	219.7922764	326.6712079		
221.9670665	0.557628506	0.023437391	0.112933157	PBX3	
9	125747345	125967377	+	4529	
protein_coding	PBX homeobox 3 [Source:HGNC Symbol;Acc:HGNC:8634]				
Homeobox	247	346	382	193	276 224
2.982561073	3.368276506	3.907180709	2.060422125		
2.655616505	2.308828813				
ENSG00000265511	9.255693406	17.61207168	5.866790497		
22.10072088	25.58807657	67.70387084	10.91151853		
38.46422277	-1.812090921	0.02344063	0.112933157		
AC020558.2	17	17507351	17508308	+	795
antisense	novel transcript		-	8	19
6	22	28	69	0.550322882	1.053708371
0.349612199	1.338002019	1.534791907	4.051613392		
ENSG00000150779	474.354287	754.5382286	865.3515983		
820.7404074	1062.819037	1088.168011	698.0813713		
990.5758186	-0.503818047	0.023448267	0.112934362	TIMM8B	
11	112084800	112086798	-	1166	
protein_coding	translocase of inner mitochondrial membrane 8 homolog B [Source:HGNC Symbol;Acc:HGNC:11818]				
817	1163 1109	19.23003254	30.7793761	410 814	885
35.15986315	33.87854285	43.46500782	44.39959734		
ENSG00000175387	2371.771435	2003.141415	1903.773516		
1703.764665	1696.123932	1607.231021	2092.895456		
1669.039873	0.326068558	0.023484782	0.113074604	SMAD2	
18	47808957	47931146	-	36366	
protein_coding	SMAD family member 2 [Source:HGNC Symbol;Acc:HGNC:6768]				
MH1	2050	2161	1947	1696	1856
1638	3.082854581	2.61995113	2.480121019		
2.254922032	2.224032018	2.102637467			
ENSG00000140848	920.9414939	1129.953441	1154.779929		
729.3237892	762.1591378	938.0420366	1068.558288		
809.8416545	0.400550849	0.023495034	0.113088344	CPNE2	
16	57092537	57148367	+	7781	
protein_coding	copine 2 [Source:HGNC Symbol;Acc:HGNC:2315]				
796	1219 1181	726 834	956	5.594642822	-
6.907203451	7.030997412	4.51130741	4.670778076		
5.735463401					
ENSG00000092208	274.1999171	352.2414335	323.6512757		
195.8927533	186.427415	256.0972506	316.6975421		
212.8058063	0.574863137	0.023571981	0.113412384	GEMIN2	
14	39114223	39136973	+	2757	
protein_coding	gem nuclear organelle associated protein 2 [Source:HGNC Symbol;Acc:HGNC:10884]				
195	204 261	4.701173643	6.076881792	237 380	331
5.561522307	3.419787037	3.224422916	4.419262277		
ENSG00000132507	9004.632722	12581.50783	12640.00013		

8792.068599	9139.512634	9299.960694	11408.71356	
9077.180642	0.329934035	0.023577194	0.113412384	EIF5A
17	7306999	7312463 +	2815	protein_coding
eukaryotic translation initiation factor 5A [Source:HGNC				
Symbol;Acc:HGNC:3300]	-	7783	13573	12927 8752 10001
9478	151.2040222	212.5844079	212.7266032	
150.324624	154.8187747	157.1753156		
ENSG00000135336	1025.068045	674.8204305	729.4376185	
632.8842799	593.0950604	542.6121823	809.7753646	
589.5305075	0.456850089	0.023593943	0.113457255	ORC3
6	87590067	87667453	+ 3689	
protein_coding origin recognition complex subunit 3 [Source:HGNC				
Symbol;Acc:HGNC:8489]	-	886	728	746 630 649
553	13.13468855	8.700749837	9.367692537	
8.257205834	7.666455856	6.997815886		
ENSG00000260368	12.72657843	1.853902282	5.866790497	0
0	0	6.815757071	0	5.257183072
0.023598111	1	AC027373.1	8	100913247
100914388	-	1142	sense_overlapping	"novel
transcript, overlapping YWHAZ" - 11 2 6 0				
0	0	0.526770316	0.07721432	0.243381522
0	0	0		
ENSG00000103226	201.3113316	43.56670362	32.26734773	
14.06409511	22.84649694	55.92928461	92.38179431	
30.94662555	1.574373978	0.023605279	0.113476069	NOM03
16	16232495	16294814	+ 8274	
protein_coding NODAL modulator 3 [Source:HGNC Symbol;Acc:HGNC:25242]				
-	174	47	33	14 25 57
1.150081042	0.250447268	0.18475699	0.081811383	
0.131668864	0.321592102			
ENSG00000168303	945.2376891	1415.454392	1378.695767	
1630.430454	1453.037205	1920.238772	1246.462616	
1667.902144	-0.419323139	0.023647123	0.113641488	MPLKIP
7	40126023	40134652	- 7661	
protein_coding M-phase specific PLK1 interacting protein [Source:HGNC				
Symbol;Acc:HGNC:16002]	-	817	1527	1410 1623 1590
1957	5.832185206	8.787949097	8.525818953	
10.24316749	9.044202127	11.92480811		
ENSG00000196968	658.3111935	482.9415444	644.3691563	
483.2021248	269.5886638	459.2088631	595.207298	
403.9998839	0.559234002	0.023659808	0.113666714	FUT11
10	73772291	73780251	+ 4910	
protein_coding fucosyltransferase 11 [Source:HGNC				
Symbol;Acc:HGNC:19233]	-	569	521	659 481 295
468	6.33760966	4.678322851	6.217365204	
4.73657917	2.618177713	4.449491657		
ENSG00000109738	432.7036667	377.2691143	336.3626552	
251.1445555	296.0906003	255.1160351	382.1118121	
267.450397	0.513477494	0.023684157	0.113747944	GLRB
4	157076057	157172090	+ 3459	

protein_coding	glycine receptor beta [Source:HGNC					
Symbol;Acc:HGNC:4329]	-	374	407	344	250	324
260	5.913107206	5.187735261	4.606916453			
3.494545208	4.081812449	3.50888247				
ENSG00000128510	341.3036943	223.3952249	471.2988366			
254.1582902	138.9067014	235.4917247	345.3325853			
209.5189054	0.721457424	0.023697049	0.113774116			CPA4
7	130293134	130324180	+	3958		
protein_coding	carboxypeptidase A4 [Source:HGNC					
Symbol;Acc:HGNC:15740]	-	295	241	482	253	152
240	4.076063478	2.684572955	5.641228667			
3.090622399	1.673502617	2.830619458				
ENSG00000187522	861.9364484	543.1933685	694.2368755			
485.2112812	569.3347036	443.5094148	699.7888975			
499.3517999	0.485470938	0.023767587	0.114076957			HSPA14
10	14838164	14871741	+	2644		
protein_coding	heat shock protein family A (Hsp70) member 14					
[Source:HGNC Symbol;Acc:HGNC:29526]	-		745	586		710
483	623	452	15.40953504	9.771699953		
12.43939772	8.832566104	10.26798424	7.980369862			
ENSG00000156475	0	4.634755704	19.55596832	0	0	
0	8.063574676	0	5.507107156	0.023785836		
1	PPP2R2B 5	146581146	147084784			-
13206	protein_coding protein phosphatase 2 regulatory					
subunit Bbeta [Source:HGNC Symbol;Acc:HGNC:9305]	-					0
5	20	0	0	0	0.016692934	
0.070155409	0	0	0			
ENSG00000162366	0	13.90426711	9.777984162	0	0	
0	7.894083758	0	5.477669748	0.023803773		
1	PDZK1IP1	1	47183593	47191044		
-	1438	protein_coding PDZK1 interacting protein 1				
[Source:HGNC Symbol;Acc:HGNC:16887]	-		0	15	10	
0	0	0	0	0.459903094	0.322139195	
0	0	0				
ENSG00000101181	1081.759167	1649.973031	1705.280438			
2089.522702	1869.757309	1922.201203	1479.004212			
1960.493738	-0.405791303	0.023826185	0.114319674			MTG2
20	62183029	62203568	+	5209		
protein_coding	mitochondrial ribosome associated GTPase 2					
[Source:HGNC Symbol;Acc:HGNC:16239]	-		935	1780		1744
2080	2046	1959	9.816393658	15.06605688		
15.50938507	19.30679539	17.11629921	17.55602192			
ENSG00000196544	74.04554725	118.649746	93.86864795			
224.0209435	113.3186248	173.6751469	95.52131374			
170.3382384	-0.830986228	0.023833113	0.114319674			BORCS6
17	8188333	8190907	-	2575	protein_coding	BLOC-1
related complex	subunit 6 [Source:HGNC Symbol;Acc:HGNC:25939]					-
64	128	96	223	124	177	1.35924409
2.191627263	1.727016375	4.187249565	2.098471375			
3.208795714						

ENSG00000134996	448.9011302	468.1103261	431.2091015	
294.3414191	354.5776324	327.7259835	449.4068526	
325.548345	0.464837847	0.023842666	0.114329622	OSTF1
9	75088543	75147265	+ 1319	
protein_coding	osteoclast stimulating factor 1 [Source:HGNC			
Symbol;Acc:HGNC:8510]	-	388 505	441 293	388
334	16.08724377	16.88031476	15.48803244	
10.74048867	12.81874557	11.8208228		
ENSG00000101104	511.3770607	566.3671471	696.1924723	
405.8496017	343.6113139	508.2696391	591.3122267	
419.2435182	0.497020457	0.023861268	0.114382942	
PABPC1L 20	44910062	44959035	+ 4984	
protein_coding	poly(A) binding protein cytoplasmic 1 like			
[Source:HGNC Symbol;Acc:HGNC:15797]	-	442 611		712
404	376 518	4.849968841	5.405017875	
6.617659473	3.919264267	3.287520041	4.851742709	
ENSG00000143162	2021.212047	2076.370555	1802.082481	
1171.338207	1537.112314	1796.605616	1966.555028	
1501.685379	0.388963021	0.023882292	0.114447838	CREG1
1	167529117	167553805	- 3286	
protein_coding	cellular repressor of E1A stimulated genes 1			
[Source:HGNC Symbol;Acc:HGNC:2351]	-	1747 2240		1843
1166	1682 1831	29.07502244	30.05483979	
25.98126137	17.15663879	22.30576026	26.01158527	
ENSG00000272333	1222.908491	1802.919969	2374.094554	
2929.350095	2053.443145	2527.611178	1799.974338	
2503.468139	-0.475376051	0.023926372	0.114623145	KMT2B
19	35718019	35738878	+ 10279	
protein_coding	lysine methyltransferase 2B [Source:HGNC			
Symbol;Acc:HGNC:15840]	-	1057 1945	2428 2916	2247
2576	5.623657127	8.34262452	10.94208974	
13.71632826	9.526004978	11.69879224		
ENSG00000100997	860.7794867	952.9057728	1066.778072	
804.6671558	711.8968445	693.7193723	960.1544439	
736.7611242	0.382647753	0.023955965	0.114728961	ABHD12
20	25294743	25390983	- 3429	
protein_coding	abhydrolase domain containing 12 [Source:HGNC			
Symbol;Acc:HGNC:15868]	-	744 1028	1091 801	779
707	11.86588577	13.21781252	14.7387184	
11.29448018	9.899848996	9.624938529		
ENSG00000168389	198.9974082	302.1860719	334.4070583	
164.7508284	223.89567	127.5580175	278.5301795	
172.068172	0.695407014	0.023970829	0.114730374	MFSD2A
1	39955112	39969968	+ 4007	
protein_coding	major facilitator superfamily domain containing 2A			
[Source:HGNC Symbol;Acc:HGNC:25897]	-	172 326		342
164	245 130	2.347490358	3.587006929	
3.953750132	1.978908537	2.664436287	1.514502678	
ENSG00000165775	2141.536062	1801.993018	1541.010304	
2264.319312	2519.511682	2214.603427	1828.179794	

2332.811474	-0.352202094	0.023971271	0.114730374	FUNDC2
X	155025980	155060303	+ 10252	
protein_coding	FUN14 domain containing 2 [Source:HGNC			
Symbol;Acc:HGNC:24925]	-	1851 1944	1576 2254	2757
2257	9.873986611	8.360295364	7.121148977	
10.63032471	11.71889779	10.27706249		
ENSG00000184110	178.1720981	267.8888797	363.7410108	
1536.000101	267.7609441	669.1889843	269.9339962	
824.3166766	-1.61019618	0.024055093	0.11507444	EIF3C
16	28688558	28735730	+ 6982	
protein_coding	eukaryotic translation initiation factor 3 subunit C			
[Source:HGNC Symbol;Acc:HGNC:3279]	-	154 289	372	
1529	293 682	1.206245175	1.824954144	
2.468115908	10.58836387	1.828716459	4.559850101	
ENSG00000275023	2894.718113	3793.084068	4337.513774	
4488.455496	4407.546189	5278.939495	3675.105318	
4724.980393	-0.362225935	0.024058214	0.11507444	MLLT6
17	38705542	38729803	+ 13315	
protein_coding	"MLLT6, PHD finger containing [Source:HGNC			
Symbol;Acc:HGNC:7138]"	-	2502 4092	4436 4468	4823
5380	10.27639638	13.54966046	15.43308764	
16.22457055	15.78464027	18.86197395		
ENSG00000267277	1.156961676	2.780853423	6.844588913	
8.036625776	26.50193645	27.47403455	3.59413467	
20.67086559	-2.510983469	0.024097808	0.115218319	
AC024575.1	19	11368123	11374935	- 682
antisense	"novel transcript, antisense to SWSAP1"			-
1	3	7	8 29	28
0.193941539	0.475462338	0.567161613	1.852986354	
1.916547964				
ENSG00000268201	20.82531016	3.707804563	0	0
0	8.177704909	0	5.519269021	0.0241015
1	AC020915.2	19	58266635	58267685
+	550	sense_intronic	"novel transcript, sense	
intronic to ZNF544"	-	18	4	0 0 0
0	1.789800101	0.320650011	0	0 0
0				
ENSG00000065308	2485.153679	2646.445507	3338.203793	
2352.722196	1758.266404	2402.996807	2823.26766	
2171.328469	0.379100945	0.024103368	0.115218319	TRAM2
6	52497402	52576915	- 6908	
protein_coding	translocation associated membrane protein 2			
[Source:HGNC Symbol;Acc:HGNC:16855]	-	2148 2855	3414	
2342	1924 2449	17.00500096	18.22165173	
22.89357645	16.39214467	12.13699957	16.54940911	
ENSG00000196361	0	14.83121825	8.800185745	0
0	7.877134666	0	5.474673725	0.024114393
1	ELAVL3	19	11451326	11481046
4761	protein_coding	ELAV like RNA binding protein 3		
[Source:HGNC Symbol;Acc:HGNC:3314]	-	0	16	9

	0	0	0	0	0.148168457	0.087568273	
	0	0	0				
ENSG00000226276	30.08100357		0	0	0	0	0
	10.02700119	0		5.813578856	0.024127685		1
	AC093382.1	2		215939308	215941719		-
	379	lincRNA novel transcript			-	26	0
	0	0	0	0	3.751706457	0	0
	0	0	0				
ENSG00000224945	15.04050178		20.3929251		33.24514615		
	50.2289111	68.53949081		52.00442253	22.89285768		
	56.92427481	-1.31029817		0.024158752	0.115446966		
AL353150.1	9	89088604		89109934	-		1038
	sense_intronic	novel transcript			-	13	22
	34	50	75	53	0.684921362	0.934456922	
	1.517343887	2.329023482		3.148636369	2.383551566		
ENSG00000271447	5.784808379		32.44328993		40.08973506		0
	10.05245865	0		26.10594446	3.350819551		
	2.947750418	0.02417772		0.115501501	MMP28	17	
	35756249	35795707		-	2858	protein_coding	matrix
	metallopeptidase 28	[Source:HGNC	Symbol;Acc:HGNC:14366]		-		5
	35	41	0	11	0	0.095675886	
	0.539932883	0.664544531		0	0.167721624	0	
ENSG00000107551	372.5416596		154.8008405		171.1147228		
	73.33421021	144.3898606		157.9756986	232.8190743		
	125.2332565	0.891604973		0.024191239	0.115529982		RASSF4
	10	44959407		44995891	+	9481	
	protein_coding	Ras association domain family member 4	[Source:HGNC	Symbol;Acc:HGNC:20793]	-	322	167
	161	1.857361495		0.776598026	0.855039854		158
	0.372280193	0.726208852		0.792716258			
ENSG00000160113	956.8073058		1470.144509		1999.597761		
	876.9967878	919.3430367		1274.59896	1475.516525		
	1023.646261	0.528062062		0.02421844	0.115623765		NR2F6
	19	17231883		17245940	-	2676	
	protein_coding	nuclear receptor subfamily 2 group F member 6					
	[Source:HGNC	Symbol;Acc:HGNC:7977]		RXR-like		827	1586
	2045	873	1006	1299	16.9010666	26.13069927	
	35.40052143	15.77354652		16.38213383	22.66047858		
ENSG00000273176	21.98227184		2.780853423		0	0	0
	0	8.254375087		0	5.532366388	0.024277802	
	1	AL008635.1		22	35298838	35299541	
	-	385	antisense		"novel transcript, antisense		
	to TOM1"	-	19	3	0	0	0
	2.698904915	0.343553584		0	0	0	0
ENSG00000168476	634.0149983		969.5908933		1357.184202		
	621.8339194	657.9791117		764.3668897	986.9300311		
	681.3933069	0.535222342		0.024279482	0.115879001		REEP4
	8	22138020		22141951	-	2266	
	protein_coding	receptor accessory protein 4	[Source:HGNC	Symbol;Acc:HGNC:26176]	-	548	1046
					1388	619	720

779	13.22559945	20.35193641	28.37474821	
13.20784489	13.84621875	16.04809875		
ENSG00000264522	939.4528807	836.109929	1022.777143	
1185.402302	1077.440795	1365.852003	932.7799843	
1209.565034	-0.374909992	0.024300275	0.115942043	OTUD7B
1	149937812	150010676	-	12177
protein_coding	OTU deubiquitinase 7B [Source:HGNC			
Symbol;Acc:HGNC:16683]	-	812	902	1046 1180 1179
1392	3.646787319	3.265879747	3.979182283	
4.685359484	4.219219278	5.336358095		
ENSG00000135930	1276.128728	1319.978425	1293.627305	
1561.114557	1529.801435	1767.169151	1296.578152	
1619.361714	-0.320562704	0.024316565	0.115953283	EIF4E2
2	232550052	232583644	+	7177
protein_coding	eukaryotic translation initiation factor 4E family			
member 2 [Source:HGNC	Symbol;Acc:HGNC:3293]			
	-		1103	1424
1323	1554	1674	1801	8.404797977 8.747843423
8.539242634	10.46909847	10.16415093	11.71431242	
ENSG00000220205	458.1568236	629.3998246	510.4107732	
622.8384977	672.6008698	943.9293297	532.6558072	
746.4562324	-0.485887722	0.024317801	0.115953283	VAMP2
17	8159149	8163546	-	3268 protein_coding
vesicle associated membrane protein 2 [Source:HGNC	Symbol;Acc:HGNC:12643]			
	-	396	679	522 620 736
962	6.626860841	9.160552845	7.399304686	
9.172988692	9.814187801	13.74165561		
ENSG00000124209	3590.05208	3051.523156	2971.529387	
4416.125864	3946.046951	3597.136094	3204.368207	
3986.436303	-0.315286024	0.024396545	0.116292478	RAB22A
20	58309696	58367507	+	9285
protein_coding	"RAB22A, member RAS oncogene family [Source:HGNC			
Symbol;Acc:HGNC:9764]"	-	3103	3292	3039 4396 4318
3666	18.27656521	15.6319039	15.16181691	
22.89164446	20.26559353	18.43132633		
ENSG00000153714	133.0505927	146.4582803	85.06846221	
204.9339573	210.1877718	182.5060866	121.5257784	
199.2092719	-0.713458941	0.024438343	0.116452604	
LURAP1L 9	12775021	12822131	+	2132
protein_coding	leucine rich adaptor protein 1 like [Source:HGNC			
Symbol;Acc:HGNC:31452]	-	115	158	87 204 230
186	2.949886815	3.267411585	1.890316426	
4.626410698	4.701097229	4.072600214		
ENSG00000135047	649.0555001	958.4674796	801.7947013	
912.1570256	1100.287292	1248.106141	803.1058937	
1086.850153	-0.435596431	0.024445372	0.116452604	CTSL
9	87725519	87731393	+	2366
protein_coding	cathepsin L [Source:HGNC			
Symbol;Acc:HGNC:2537]	-			
561	1034	820	908	1204 1272 12.96709921
19.26813837	16.05467683	18.55548561	22.17534291	
25.0968033				

ENSG00000268218	83.30124065	80.64474925	95.82424478		
141.6455293	121.5433637	182.5060866	86.59007823		
148.5649932	-0.778188749	0.024454439	0.116459505		
AC137932.3	16	89268104	89273044	+	3660
	antisense	"novel transcript, antisense to ANKRD11"			
-	72	87	98	141	133 186
1.075836127	1.048026165	1.240359125	1.862684256		
1.58354042	2.372345261				
ENSG00000131899	2095.257595	2656.64197	2821.926229		
1893.629949	1952.004698	2133.162539	2524.608598		
1992.932395	0.341550047	0.0244646	0.11647161		LLGL1
17	18225587	18244875	+	6638	
protein_coding	"LLGL1, scribble cell polarity complex component				
[Source:HGNC Symbol;Acc:HGNC:6628]"	-	1811	2866	2886	
1885	2136	2174	14.92024364	19.03587726	
20.14009591	13.7301513	14.02240796	15.28862145		
ENSG00000163449	65.94681552	47.27450818	51.82331606	0	
14.62175804	29.43646558	55.01487992	14.68607454		
1.903223386	0.024498932	0.116576373	TMEM169	2	
216081866	216102783	+	3628	protein_coding	
	transmembrane protein 169 [Source:HGNC Symbol;Acc:HGNC:25130]				
-	57	51	53	0	16 30
0.85921587	0.619778998	0.676723171	0	0.192181378	
0.386011295					
ENSG00000283787	43.96454368	12.97731597	44.00092873	0	
1.827719755	16.68066383	33.64759613	6.169461195		
2.447815033	0.024501857	0.116576373	PRR33	11	
1888577	1891895	-	3319	protein_coding	proline rich
33 [Source:HGNC Symbol;Acc:HGNC:35118]	-	38	14	45	
0	2	17	0.626139435	0.185975074	
0.628069519	0	0.026259191	0.239104475		
ENSG00000205710	10.41265508	12.97731597	13.68917783	0	
0	2.943646558	12.35971629	0.981215519		
3.665264276	0.02456113	1	C17orf107	17	
4899418	4902932	+	3408	protein_coding	chromosome 17 open
reading frame 107 [Source:HGNC Symbol;Acc:HGNC:37238]	-	9			
14	14	0	0	3	0.144423424
0.181118331	0.190296546	0	0	0.041092986	
ENSG00000112249	553.027681	468.1103261	453.6984651		
253.1537119	381.9934288	391.5049923	491.6121574		
342.2173777	0.521478728	0.024593571	0.116976331		ASCC3
6	100508194	100881372	-	11731	
protein_coding	activating signal cointegrator 1 complex subunit 3				
[Source:HGNC Symbol;Acc:HGNC:18697]	-	478	505	464	
252	418	399	2.228371393	1.897974186	
1.832252832	1.038644014	1.552743946	1.58775649		
ENSG00000284820	23.13923351	0	1.955596832	0	0
0	8.364943449	0	5.551118115	0.024599708	
1	AC068946.2	2	219209772	219222738	
-	5245	protein_coding	novel transcript	-	

	20	0	2	0	0	0	0.208535125	
	0	0.017663915		0	0	0		
ENSG00000140022	188.5847531			159.4355962		168.1813276		
129.5905906	106.0077458			53.96685357		172.0672256		
96.52173	0.833509841			0.024617695		0.11705465		STON2
	14	81260656		81436465		-	7812	
protein_coding	stonin 2 [Source:HGNC Symbol;Acc:HGNC:30652]						-	
	163	172	172	129	116	55	1.141090481	
	0.970733842		1.019926012		0.798415009		0.6470746	
	0.328659727							
ENSG00000279494	0	0		4.888992081		31.14192488		
11.88017841	6.868508636			1.629664027				
16.63020398	-3.331548879			0.024632703		1	AL117328.2	
	22	49851425		49853364		+	1940	
lincRNA novel transcript				-	0	0	5	31
	13	7	0	0	0.119390764		0.772611522	
	0.292011678		0.16843888					
ENSG00000137269	409.5644332			295.6974139		279.650347		
173.7920324	213.8432113			260.0221127		328.3040647		
215.8857855	0.603191367			0.024646764		0.117156432		LRRC1
	6	53794497		53924121		+	4897	
protein_coding	leucine rich repeat containing 1 [Source:HGNC Symbol;Acc:HGNC:14307]						-	
	265	3.953373718		2.872066802		286	173	234
1.708115429	2.082305044			2.526165535				
ENSG00000128789	1206.711028			865.7723656		1003.221175		
693.1589732	805.110552			823.2398208		1025.234856		
773.8364487	0.404920325			0.024663618		0.117200102		PSMG2
	18	12658043		12725740		+	3356	
protein_coding	proteasome assembly chaperone 2 [Source:HGNC Symbol;Acc:HGNC:24929]						-	
	839	16.99640492		1043	934	1026	690	881
9.940960658	11.43964517			12.27040457		14.16210678		
ENSG00000262094	4.627846703			11.67040814				
	0	8.061271675		0	19.55596832	0	0	
	1	AC139099.1		0	5.504342234	0.024667647		
	-	2625	lincRNA novel transcript	17	83220527	83227721		
	0	20	0	0	0	0.083334608		4
	0.352941839		0	0				0
ENSG00000151247	1515.619795			1272.703916		1256.470965		
954.3493109	1131.358528			1073.449778		1348.264892		
1053.052539	0.355849551			0.024686444		0.117272117		EIF4E
	4	98871684		98930637		-	14067	
protein_coding	eukaryotic translation initiation factor 4E [Source:HGNC Symbol;Acc:HGNC:3287]						-	
	950	1238	1094	5.092892637		1310	1373	1285
4.231595007	3.26530185			3.835109381		4.303313716		
ENSG00000100664	8879.680861			8208.152352		7466.468706		
9806.692603	10246.19695			9568.813746		8184.767306		
9873.901098	-0.270775773			0.024699168		0.117283401		EIF5

14	103333544	103345025	+	8505	
protein_coding	eukaryotic translation initiation factor 5				
[Source:HGNC Symbol;Acc:HGNC:3299]		-	7675	8855	7636
9762	11212	9752	49.35132065	45.90375422	
41.59049197	55.49651374	57.44700199	53.52607651		
ENSG00000165246	207.09614	212.2718113	264.9833708		
404.8450235	265.0193645	352.2563715	228.1171073		
340.7069198	-0.577616525	0.024704164	0.117283401		NLGN4Y
Y	14522573	14845650	+	8589	
protein_coding	neuroigin 4 Y-linked [Source:HGNC				
Symbol;Acc:HGNC:15529]	-	179	229	271	403
359	1.139738296	1.175511379	1.461602052		290
2.268629943	1.471343222	1.951182453			
ENSG00000231365	217.508795	234.5186386	208.2710626		
331.5108133	296.0906003	321.8386904	220.0994988		
316.4800346	-0.523443572	0.024726546	0.117319502		
AL359915.2	1	119140396	119275973	+	5462
antisense	uncharacterized LOC101929147 [Source:NCBI				
gene;Acc:101929147]	-	188	253	213	330
328	1.882352114	2.042221215	1.806468377		324
2.921214587	2.584948602	2.803291007			
ENSG00000139579	1263.40215	1360.764275	1525.365529		
1052.797977	987.8825275	1203.951442	1383.177318		
1081.543982	0.35530491	0.024727117	0.117319502		NABP2
12	56222015	56229854	+	2218	
protein_coding	nucleic acid binding protein 2 [Source:HGNC				
Symbol;Acc:HGNC:28412]	-	1092	1468	1560	1048
1227	26.92500603	29.18088585	32.58108271		1081
22.84551524	21.23844665	25.82432964			
ENSG00000164346	1420.748938	1522.053773	1486.253593		
1090.971949	1295.853306	1132.322709	1476.352101		
1173.049322	0.331720079	0.024764315	0.117459534		NSA2
5	74766991	74780113	+	4962	
protein_coding	"NSA2, ribosome biogenesis homolog [Source:HGNC				
Symbol;Acc:HGNC:30728]"	-	1228	1642	1520	1086
1154	13.53431623	14.58983401	14.19022507		1418
10.58215898	12.45311701	10.85663119			
ENSG00000185716	601.6200714	532.996906	421.4311174		
736.3558367	657.9791117	711.3812516	518.6826982		
701.9054	-0.437196639	0.024792162	0.117510163		MOSMO
16	22007638	22087534	+	6122	
protein_coding	modulator of smoothened [Source:HGNC				
Symbol;Acc:HGNC:27087]	-	520	575	431	733
725	4.645203356	4.141030959	3.261267336		720
5.789110855	5.125046014	5.52828873			
ENSG00000006606	1.156961676	4.634755704	7.822387329		
39.17855066	20.1049173	10.79337071	4.538034903		
23.35894623	-2.347492524	0.024796474	0.117510163		CCL26
7	75769533	75789896	-	706	
protein_coding	C-C motif chemokine ligand 26 [Source:HGNC				

Symbol;Acc:HGNC:10625]	-	1	5	8	39	22
11	0.077462233	0.312247709	0.524913499			
2.67092149	1.357927481	0.727334218				
ENSG00000226380	94.87085741	50.98231275	65.51249388			
167.7645631	93.2137075	135.4077417	70.45522135			
132.1286708	-0.910582345	0.02479805	0.117510163			LINC-
PINT 7	130876809	130913310	-	6619		
lincRNA "long intergenic non-protein coding RNA, p53 induced transcript [Source:NCBI gene;Acc:378805]"						
67	167	102	138	0.67751074	0.366356808	55
0.468905015	1.21990302	0.671531499	0.973268665			
ENSG00000238250	8.09873173	0	15.64477466	0	0	
0	7.91450213	0	5.476393249	0.024801323		
1	ST6GAL2-IT1	2	106822923	106825031		
-	388	sense_intronic	ST6GAL2 intronic transcript 1			
[Source:HGNC Symbol;Acc:HGNC:41380]	-	7	0	16		
0	0	0	0.986645245	0	1.910252219	
0	0	0				
ENSG00000181754	85.615164	126.9923063	106.5800274			
176.8057671	163.5809181	183.4873021	106.3958326			
174.6246624	-0.711941446	0.024816611	0.117556851			AMIG01
1	109504175	109509738	-	5144		
protein_coding adhesion molecule with Ig like domain 1 [Source:HGNC Symbol;Acc:HGNC:20824]						
-	74	137	109	176	179	
187	0.786729568	1.174231064	0.981585182			
1.654294875	1.516389152	1.697018913				
ENSG00000128262	8.09873173	2.780853423	8.800185745	0		
0	0	6.559923633	0	5.204808641		
0.024822991	1	POM121L9P	22	24251828		
24265525	+	5137	transcribed_unprocessed_pseudogene			
"POM121 transmembrane nucleoporin like 9, pseudogene [Source:HGNC Symbol;Acc:HGNC:30080]"						
-	7	3	9			
0	0	0	0.074521774	0.025748127		
0.081158759	0	0	0			
ENSG00000257605	3.470885027	10.19646255	13.68917783			
44.20144177	27.41579632	26.49281903	9.118841801			
32.70335237	-1.830356893	0.024823282	0.117556851			
AC073611.1	12	53298655	53300314	-	647	
antisense "novel transcript, antisense to PFDN5 and C12orf10"						
-	3	11	14	44	30	27
0.253578067	0.749587546	1.002365732	3.288134791			
2.020577775	1.948074311					
ENSG00000251288	0	0	0	14.06409511	10.05245865	
0	0	8.038851253	-5.426794997	0.024831085		
1	AC018797.3	4	102751401	102752641		
+	1241	processed_pseudogene	WD repeat domain 12			
(WDR12) pseudogene	-	0	0	0	14	11
0	0	0	0	0.545453171	0.386259791	
0						
ENSG00000168528	441.9593601	233.5916875	407.7419395			

276.2590111	229.3788292	186.4309487	361.0976624		
230.6895963	0.645294932	0.02483718	0.117586239		
SERINC2 1	31409565	31434680	+	3549	
protein_coding	serine incorporator 2 [Source:HGNC				
Symbol;Acc:HGNC:23231]	-	382	252	417	275
190	5.886431253	3.130606621	5.442927022		251
3.746518755	3.081955189	2.499157561			
ENSG00000174915	566.9112211	622.9111666	832.1064522		
935.2623247	794.1442335	1015.558063	673.97628		
914.9882069	-0.440253032	0.024898988	0.117823054		PTDSS2
11	448268	491399	+	6113	protein_coding
phosphatidylserine synthase 2	[Source:HGNC Symbol;Acc:HGNC:15463]				
-	490	672	851	931	869
4.3836553	4.846730093	6.448780874	7.363707033	1035	
6.194752768	7.90372807				
ENSG00000230555	5.784808379	21.31987624	13.68917783		
47.21517644	46.60685375	31.39889662	13.59795415		
41.74030894	-1.606658087	0.024902616	0.117823054		
AL450326.1	10	43420738	43422100	+	760
lincRNA	novel transcript		-	5	23
47	51	32	0.359791687	1.334283765	14
0.853329774	2.990098411	2.924254599	1.965542423		
ENSG00000236682	8.09873173	5.561706845	10.75578258		0
0	0.981215519	8.138740384	0.32707184		
4.555476219	0.024918575	1	AC068282.1	2	
127389130	127400580	+	2690	lincRNA novel	
transcript	-	7	6	11	0
0.142311656	0.098340617	0.189427427	0	0	1
0.017353767					0
ENSG0000034053	738.1415491	1101.217955	987.5764003		
1406.409511	1174.309942	1180.40227	942.3119683		
1253.707241	-0.410820074	0.024926164	0.117897981		APBA2
15	28884483	29118315	+	6869	
protein_coding	amyloid beta precursor protein binding family A member				
2 [Source:HGNC Symbol;Acc:HGNC:579]	-		638	1188	1010
1400	1285	1203	5.079510648	7.625299079	
6.811304772	9.854525912	8.152075797	8.175571985		
ENSG0000033178	2406.480285	1958.647761	1777.637521		
1657.554066	1642.2062	1532.658641	2047.588522		
1610.806302	0.345670415	0.024986927	0.118148826		UBA6
4	67612652	67701179	-	11432	
protein_coding	ubiquitin like modifier activating enzyme 6				
[Source:HGNC Symbol;Acc:HGNC:25581]	-		2080	2113	1818
1650	1797	1562	9.950292143	8.149129873	
7.366719249	6.978513853	6.849903591	6.37829864		
ENSG00000215861	4.627846703	24.10072966	21.51156516		
43.19686355	56.6593124	48.07956045	16.74671384		
49.31191213	-1.546712571	0.025018118	0.11825973		
AC245297.1	1	149197992	149321732	-	933
unprocessed_pseudogene	phosphodiesterase 4D interacting				

protein-like [Source:NCBI gene;Acc:653513]	-	4	26
22	43	62	49
1.092303922	2.228373722	2.895800532	2.451661302
ENSG00000182307	3131.895256	3403.764589	3000.863339
3924.887113	3901.267817	3733.525052	3178.841062
3853.226661	-0.277485583	0.025047347	0.118361296
C8orf33 8	145052378	145066685	+ 4440
protein_coding chromosome 8 open reading frame 33 [Source:HGNC			
Symbol;Acc:HGNC:26104]	-	2707	3672
3805	33.34264115	36.46310604	32.01963479
42.54628624	41.89881907	40.00531799	
ENSG00000199133	8.09873173	7.415609127	3.911193665
0	0	6.475178174	0
0.025061448	1	MIRLET7D	9
94178920	+	87	miRNA microRNA let-7d [Source:HGNC
Symbol;Acc:HGNC:31481]	-	7	8
0	4.400210977	4.054195547	2.12982144
0	0		0
ENSG00000198931	2121.867713	3310.142524	3707.811594
4087.628785	3452.562617	4769.68864	3046.607277
4103.293347	-0.429182326	0.025088845	0.118520757
16	88809339	88811944	- 1803
protein_coding adenine phosphoribosyltransferase [Source:HGNC			
Symbol;Acc:HGNC:626]	-	1834	3571
4861	55.62862397	87.32288617	97.42604163
109.1171916	91.31136281	125.8565812	
ENSG00000269416	6.941770054	3.707804563	8.800185745
0	0	6.483253454	0
0.025129937	1	LINC01224	19
23416075	-	3296	lincRNA long intergenic non-protein
coding RNA 1224 [Source:HGNC Symbol;Acc:HGNC:49676]	-		6
4	9	0	0
0.053506525	0.126490457	0	0
ENSG00000122970	472.0403637	510.7500786	469.3432398
335.5291262	426.7725628	222.7359229	484.0445607
328.3458706	0.559448676	0.025148277	0.118764819
12	110124335	110218797	+ 7005
protein_coding intraflagellar transport 81 [Source:HGNC			
Symbol;Acc:HGNC:14313]	-	408	551
227	3.185273557	3.467986652	3.174209255
2.305364194	2.905141824	1.512738128	
ENSG00000198482	75.20250892	116.7958437	71.37928438
225.0255217	151.7007397	105.9712761	87.79254568
160.8991792	-0.871544694	0.025160467	0.118785687
19	52527652	52564464	+ 5008
protein_coding zinc finger protein 808 [Source:HGNC			
Symbol;Acc:HGNC:33230]	zf-C2H2	65	126
108	0.709812673	1.109277446	0.675244407
2.162643402	1.444449509	1.006712523	
ENSG00000089818	822.5997514	705.4098182	607.2128164

1173.347363	753.020539	997.8961833	711.7407954	
974.7546952	-0.453989715	0.025185079	0.118865176	NECAP1
12	8076939	8097859 +	8763	protein_coding
endocytosis associated 1 [Source:HGNC Symbol;Acc:HGNC:24539]				NECAP
711	761	621	1168	824
3.828827522	3.282775959	6.444529968	4.437225517	1017
5.417690324			4.097632425	
ENSG00000143793	555.3416043	794.3971277	646.3247531	
824.7587203	875.4777626	969.4409332	665.354495	
889.892472	-0.418402162	0.025232864	0.119053948	
C1orf35 1	228100726	228105411	-	4308
protein_coding chromosome 1 open reading frame 35 [Source:HGNC Symbol;Acc:HGNC:19032]	-	480	857	661
988	6.093407959	8.770797523	7.10768579	821
9.214434325	9.690549676	10.70600115		958
ENSG00000184599	43.96454368	54.69011731	8.800185745	
76.34794487	74.93650995	115.7834313	35.81828224	
89.02262871	-1.313996842	0.025261935	0.119154333	
FAM19A3 1	112720419	112727235	+	1282
protein_coding "family with sequence similarity 19 member A3, C-C motif chemokine like [Source:HGNC Symbol;Acc:HGNC:21590]"				-
38	59	9	76	82
2.029074273	0.325204795	2.866333923	1.621027133	118
4.29674933			2.787304558	
ENSG00000198700	4532.975845	3852.408941	4901.70346	
3858.584951	3463.528935	3415.611223	4429.029416	
3579.241703	0.307289331	0.025288786	0.11924419	IP09
1	201829141	201884294	+	11915
protein_coding importin 9 [Source:HGNC Symbol;Acc:HGNC:19425]				-
3918	4156	5013	3841	3790
15.37855217	19.48974306	15.58660311	17.98312229	3481
13.63816726			13.86129355	
ENSG00000161509	34.70885027	19.46597396	50.84551764	
99.45324398	83.16124884	54.94806909	35.00678062	
79.18752064	-1.178974091	0.025310131	0.11925717	GRIN2C
17	74842023	74861504	-	8574
protein_coding glutamate ionotropic receptor NMDA type subunit 2C [Source:HGNC Symbol;Acc:HGNC:4587]				30
99	91	56	0.191351772	0.107986577
0.280945655	0.558281108	0.462505084	0.304895197	
ENSG00000162231	2024.682933	2144.96494	2060.221263	
2658.113975	2532.30572	2412.808962	2076.623045	
2534.409553	-0.287272111	0.02532093	0.11925717	NXF1
11	62792123	62806302	-	6194
protein_coding nuclear RNA export factor 1 [Source:HGNC Symbol;Acc:HGNC:8071]				-
2459	15.45117674	16.47123303	15.75780749	2771
20.65474584	19.49503066	18.53247247		
ENSG00000224032	418.8201266	367.9996029	232.716023	
512.3348932	478.8625758	490.6077597	339.8452509	

493.9350762	-0.540608519	0.025322427	0.11925717		
EPB41L4A-AS1	5	112160526	112164276	+	3344
lincRNA EPB41L4A antisense RNA 1 [Source:HGNC					
Symbol;Acc:HGNC:30749]	-	362	397	238	510
500	5.920208669	5.234295007	3.296955946		524
7.374033798	6.828473305	6.979909174			
ENSG00000123349	2364.829665	2357.236751	2587.254609		
2706.33373	2999.288118	3327.301827	2436.440342		
3010.974558	-0.305428213	0.02532348	0.11925717		PFDN5
12	53295291	53299450	+	3380	
protein_coding	prefoldin subunit 5 [Source:HGNC Symbol;Acc:HGNC:8869]				
-	2044	2543	2646	2694	3282 3391
33.07188156	33.17138599	36.26399076	38.5373731		
42.31364851	46.83355503				
ENSG00000272752	1.156961676	0	0	23.10529911	0
7.849724156	0.385653892	10.31834109	-4.82329766		
0.025330743	1	STAG3L5P-PVRIG2P-PILRB	7		
100336104	100367831	+	3816	processed_transcript	
STAG3L5P-PVRIG2P-PILRB readthrough [Source:HGNC					
Symbol;Acc:HGNC:48898]	-	1	0	0	23 0
8	0.014331325	0	0	0.291420894	0
0.097865058					
ENSG00000141699	994.9870411	1009.449792	1121.534783		
1140.196282	1495.988619	1385.476313	1041.990539		
1340.553738	-0.36354624	0.025336297	0.11925717		
RETREG3	17	42579513	42610623	-	5145
protein_coding	reticulophagy regulator family member 3 [Source:HGNC				
Symbol;Acc:HGNC:27258]	-	860	1089	1147	1135 1637
1412	9.141296274	9.332037142	10.32715023		
10.66624853	13.86506462	12.81136349			
ENSG00000162923	3852.68238	3969.204785	3910.215866		
4708.458127	4673.479413	4650.961562	3910.70101		
4677.633034	-0.258305685	0.025338346	0.11925717		WDR26
1	224385143	224437033	-	10976	
protein_coding	WD repeat domain 26 [Source:HGNC				
Symbol;Acc:HGNC:21208]	-	3330	4282	3999	4687 5114
4740	16.59185134	17.20031984	16.87756392		
20.64676771	20.30370165	20.15952426			
ENSG00000113739	669.8808102	645.157994	572.0120735		
741.3787279	845.3203866	882.112752	629.0169592		
822.9372888	-0.388153337	0.025361599	0.119329873		STC2
5	173314713	173329503	-	6128	
protein_coding	stanniocalcin 2 [Source:HGNC Symbol;Acc:HGNC:11374]				
-	579	696	585	738	925 899
5.167191056	5.00754016	4.422212066	5.822893161		
6.577813773	6.848366134				
ENSG00000233892	13.88354011	0.926951141	5.866790497		0
0	0	6.892427249	0	5.272789315	
0.02537568	1	PAIP1P1	6	30186798	30188614
-	1203	processed_pseudogene		poly(A)	binding

protein interacting protein 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:18240]	-	12	1	6	0	0
0	0.545519565	0.036649523	0.23104048	0	0	0
0	0					
ENSG00000115541	673.3516953	1067.847714	912.2859223			
619.824763	604.061379	720.2121913	884.4951106			
648.0327778	0.44987293	0.025408576	0.119514122			HSPE1
2	197499994	197503457	+	1977		
protein_coding heat shock protein family E (Hsp10) member 1 [Source:HGNC Symbol;Acc:HGNC:5269]	-	582	1152			933
617	661	734	16.09944957	25.69092656		
21.8613728	15.08966892	14.56979321	17.33147107			
ENSG00000198160	1593.136227	1395.988418	1200.736455			
1019.646895	1257.471191	897.8122003	1396.620367			
1058.310096	0.399533492	0.025431067	0.119583118			MIER1
1	66924895	66988619	+	8273		
protein_coding MIER1 transcriptional regulator [Source:HGNC Symbol;Acc:HGNC:29657]	Others	1377	1506	1228	1015	1376
915	9.102603562	8.02593994	6.876030561			
5.932042234	7.247930284	5.163023545				
ENSG00000198910	1.156961676	6.488657986	12.71137941			0
0	0	6.785666357	0	5.258747904		
0.025438524	1	L1CAM	X	153861514	153886174	
-	7270	protein_coding	L1 cell	adhesion molecule		
[Source:HGNC Symbol;Acc:HGNC:6470]	-	1	7			13
0	0	0	0.007522467	0.042451944		
0.082834527	0	0	0			
ENSG00000141101	1196.298373	1474.779265	1522.432134			
1717.82876	1710.745691	1878.046504	1397.836591			
1768.873651	-0.339021814	0.025467162	0.119716023			NOB1
16	69741867	69754940	-	2119		
protein_coding NIN1 (RPN12) binding protein 1 homolog [Source:HGNC Symbol;Acc:HGNC:29540]	-	1034	1591	1557	1710	1872
1914	26.68604996	33.10344414	34.03769259			
39.0181227	38.4975849	42.1654765				
ENSG00000127586	1165.060407	1480.340972	1639.767944			
1090.971949	988.7963874	1203.951442	1428.389774			
1094.57326	0.384702856	0.025477487	0.119727742			CHTF18
16	788046	800737	+	5916	protein_coding	
chromosome transmission fidelity factor 18 [Source:HGNC Symbol;Acc:HGNC:18435]	-	1007	1597	1677	1086	1082
1227	9.308849693	11.90174686	13.1312888			
8.875705351	7.969988471	9.681941032				
ENSG00000023171	286.9264956	289.2087559	389.1637696			
564.5729608	413.9785245	411.1293027	321.7663404			
463.2269293	-0.524860336	0.025487763	0.119739222			
GRAMD1B 11	123358428	123627774	+	14863		
protein_coding GRAM domain containing 1B [Source:HGNC Symbol;Acc:HGNC:29214]	-	248	312	398	562	453
419	0.912514797	0.925512043	1.240449391			

1.828230939	1.328159772	1.315993005				
ENSG00000155792	37.02277362	17.61207168	23.46716199			
79.36167954	47.52071363	58.87293117	26.03400243			
61.91844144	-1.256254407	0.025507452	0.119794907	DEPTOR		
8	119873717	120050913	+ 2622			
protein_coding	DEP domain containing MTOR interacting protein					
[Source:HGNC Symbol;Acc:HGNC:22953]	-	32	19	24		
79	52	60	0.667439651	0.319488236		
0.424014795	1.456785535	0.864229833	1.068229578			
ENSG00000170581	974.161731	1015.93845	818.4172743			
1174.351942	1369.875956	1095.03652	936.1724852			
1213.088139	-0.37409751	0.025523345	0.119832731	STAT2		
12	56341597	56360155	- 6109			
protein_coding	signal transducer and activator of transcription 2					
[Source:HGNC Symbol;Acc:HGNC:11363]	STAT	842	1096	837		
1169	1499	1116	7.537662347	7.909961815		
6.346843486	9.252212578	10.69276705	8.52786085			
ENSG00000153443	348.2454644	448.6443522	476.1878287			
757.4519794	469.723977	588.7293117	424.3592151			
605.301756	-0.510886104	0.025534887	0.119850113	UBALD1		
16	4608883	4615027	- 3619	protein_coding	UBA	
like domain containing 1	[Source:HGNC Symbol;Acc:HGNC:29576]			-		
301	484	487	754	514	600	4.548546357
5.896451579	6.233656022	10.07358324	6.189180287			
7.739425127						
ENSG00000159176	4145.393684	4855.370076	4160.532261			
5317.232529	4936.671058	5915.748367	4387.098674			
5389.883985	-0.296818199	0.025543972	0.119855957	CSRP1		
1	201483530	201509456	- 10318			
protein_coding	cysteine and glycine rich protein 1 [Source:HGNC					
Symbol;Acc:HGNC:2469]	-	3583	5238	4255	5293	5402
6029	18.9909197	22.3822596	19.10321646			
24.80319267	22.81485191	27.27694928				
ENSG00000197355	539.1441409	788.8354209	867.3071951			
458.0876692	513.5892511	598.5414669	731.7622523			
523.4061291	0.484392991	0.025556711	0.119862567	UAP1L1		
9	137077501	137084539	+ 5283			
protein_coding	UDP-N-acetylglucosamine pyrophosphorylase 1 like 1					
[Source:HGNC Symbol;Acc:HGNC:28082]	-	466	851	887		
456	562	610	4.823919133	7.102036621		
7.777597515	4.173356149	4.635689111	5.390080609			
ENSG00000183864	802.9314029	779.5659095	894.6855508			
1073.894119	1192.58714	940.0044677	825.7276211			
1068.828576	-0.372407873	0.025561063	0.119862567	T0B2		
22	41433492	41447023	- 4565			
protein_coding	"transducer of ERBB2, 2 [Source:HGNC					
Symbol;Acc:HGNC:11980]"	-	694	841	915	1069	1305
958	8.314064728	8.122489749	9.285018385			
11.32239078	12.45742633	9.796495945				
ENSG00000129103	1733.12859	1642.557422	1744.392374			

1227.594587	1520.662836	1329.547029	1706.692795	
1359.268151	0.328055478	0.025589503	0.119946711	SUMF2
7	56064002	56080670	+ 4101	
protein_coding	sulfatase modifying factor 2 [Source:HGNC			
Symbol;Acc:HGNC:20415]	-	1498 1772	1784 1222	1664
1355	19.97637844	19.05056701	20.15150732	
14.40730178	17.68162397	15.42394833		
ENSG00000175906	160.8176729	237.2994921	224.8936357	
339.547439	300.6598997	288.4773627	207.6702669	
309.5615671	-0.573532787	0.0255947	0.119946711	ARL4D
17	43398959	43401137	+ 1612	
protein_coding	ADP ribosylation factor like GTPase 4D [Source:HGNC			
Symbol;Acc:HGNC:656]	-	139 256	230 338	329
294	4.715681615	7.001786851	6.609448978	
10.13801383	8.89384299	8.513895764		
ENSG00000172270	14740.84871	14160.10563	19149.20418	
11747.53773	11991.66931	14496.47808	16016.71951	
12745.22837	0.32964247	0.02560892	0.119976574	BSG
19	571277 583493	+ 3797	protein_coding	
basigin (Ok blood group) [Source:HGNC	Symbol;Acc:HGNC:1116]			-
12741	15276 19584	11694 13122	14774 183.509111	
177.3793302	238.9259157	148.9099469	150.5975942	
181.6366709				
ENSG00000183506	179.3290597	260.4732706	270.8501613	
159.7279373	116.9740643	170.7315004	236.8841639	
149.1445007	0.669800538	0.025624439	0.120012499	
PI4KAP2 22	21473000	21517533	- 7474	
transcribed_unitary_pseudogene	phosphatidylinositol 4-kinase alpha			
pseudogene 2 [Source:HGNC	Symbol;Acc:HGNC:33577]			- 155
281	277 159	128 174	1.134157365	
1.657628421	1.716837265	1.028596986	0.746303492	
1.086781384				
ENSG00000132357	264.9442237	177.0476679	173.0703197	
277.2635893	307.0569188	343.4254318	205.0207371	
309.2486466	-0.595708605	0.025634208	0.12002148	CARD6
5	40841184	40860175	+ 4399	
protein_coding	caspase recruitment domain family member 6			
[Source:HGNC	Symbol;Acc:HGNC:16394]			- 177
276	336 350	2.846926357	1.914314828	
1.86389636	3.033586176	3.328464376	3.714155807	
ENSG00000230177	28.92404189	23.17377852	25.42275882	
70.32047554	53.00387289	53.96685357	25.84019308	
59.09706733	-1.195249736	0.02568744	0.120199454	
AL080317.1	6	111277932	111278742	+ 557
antisense	novel transcript			- 25 25
26	70 58	55	2.454593197	1.978876866
2.162323203	6.076367907	4.537654195	4.609496931	
ENSG00000041988	185.1138681	385.6116746	359.8298171	
364.6618946	591.2673407	494.5326218	310.18512	
483.4872857	-0.638516586	0.025687945	0.120199454	THAP3

1	6624866	6635586	+	4072	protein_coding	THAP
domain containing 3	[Source:HGNC Symbol;Acc:HGNC:20855]				THAP	160
416	368	363	647	504	2.148854084	
4.504219218	4.186417191		4.310226297		6.923968909	
5.777883794						
ENSG00000214756	107.5974358		137.1887688		126.1359957	
161.7370937	191.9105743		244.3226643		123.6407335	
199.3234441	-0.687438945		0.025700198		0.120219988	CSKMT
11	62665309		62668496	+	3185	
protein_coding	citrate synthase lysine methyltransferase [Source:HGNC					
Symbol;Acc:HGNC:33113]	-		93	148	129	161
249	1.596865083		2.048737122		1.876215543	210
2.444092599	2.873217188		3.649521666			
ENSG00000101474	2319.70816		2400.803455		2627.344344	
2163.86149	1693.382353		2011.491815		2449.28532	
1956.245219	0.324567781		0.025726626		0.1203068	APMAP
20	24962925		24992979	-	2454	
protein_coding	adipocyte plasma membrane associated protein					
[Source:HGNC Symbol;Acc:HGNC:13238]	-			2005	2590	2687
2154	1853	2050	44.68219827		46.53279761	
50.72190588	42.43970506		32.9048154		38.99647381	
ENSG00000173198	12.72657843		0.926951141		6.844588913	0
0	0	6.832706162	0		5.260819111	
0.025753566	1	CYSLTR1 X	78271464		78327691	
-	5571	protein_coding	cysteinyl leukotriene receptor			
1 [Source:HGNC Symbol;Acc:HGNC:17451]	-		11	1	7	
0	0	0	0.107982714		0.007914087	
0.058205944	0	0	0			
ENSG00000213614	504.4352906		578.4175119		676.636504	
422.9274315	427.6864226		448.4154924		586.4964355	
433.0097822	0.438452424		0.02575395		0.120373053	HEXA
15	72340919		72376476	-	12611	
protein_coding	hexosaminidase subunit alpha [Source:HGNC					
Symbol;Acc:HGNC:4878]	-		436	624	692	421
457	1.890739409		2.181569343		2.541903298	468
1.614112447	1.617167203		1.691658558			
ENSG00000171621	329.7340776		420.8358179		402.8529475	
494.2524852	507.192232		579.898372		384.474281	
527.1143631	-0.453950307		0.025756542		0.120373053	SPSB1
1	9292880	9369532	+	3403	protein_coding	splA/
ryanodine receptor domain and SOCS box containing 1	[Source:HGNC					
Symbol;Acc:HGNC:30628]	-		285	454	412	492
591	4.580128088		5.882038486		5.608383756	555
6.99043771	7.10705427		8.107212706			
ENSG00000075624	200702.7697		182752.1252		195007.2271	
154867.7879	174916.436		155381.3648		192820.7074	
161721.8629	0.253740417		0.025778443		0.120438589	ACTB
7	5527147	5563784	-	3519	protein_coding	actin
beta [Source:HGNC Symbol;Acc:HGNC:132]	-				173474	197154
154162	191404	158356	2695.937617		2470.132694	199435

2625.334021	2118.162552	2370.22918	2100.686731								
ENSG00000267655	2.313923351	6.488657986	0	22.10072088							
	10.05245865	26.49281903	2.934193779	19.54866619							
	-2.721743105	0.025794931	1	AC125437.1	18						
	79117207	79117920	+	714	sense_intronic						
	"novel transcript, sense intronic to ATP9B"				-	2					
	7	0	22	11	27	0.153188617					
0.43224879	0	1.489792164	0.671356304	1.765271819							
ENSG00000099624	1714.617203	2372.994921	2379.961345								
2717.384091	2439.092013	3236.048783	2155.857823								
2797.508296	-0.375359541	0.025820735	0.120581129								
ATP5F1D 19	1241746	1244826	+	2250	protein_coding	ATP					
synthase F1 subunit delta [Source:HGNC Symbol;Acc:HGNC:837]						-					
	1482	2560	2434	2705	2669	3298	36.02138426				
	50.16391291	50.11185871	58.12807861	51.69215685							
	68.42489963										
ENSG00000174032	568.0681828	596.9565347	643.3913578								
754.4382447	802.3689724	787.9160621	602.8053584								
781.5744264	-0.374392817	0.025824728	0.120581129								
SLC25A30	13	45393316	45418455	-	6794						
protein_coding solute carrier family 25 member 30											
[Source:HGNC Symbol;Acc:HGNC:27371]						-	491	644	658		
	751	878	803	3.952306916	4.17921085						
4.48644974	5.344604967	5.63154516	5.517419921								
ENSG00000180999	0	0	0	0	10.05245865						
13.73701727	0	7.929825308	-5.407863513	0.025862452							
	1	C1orf105	1	172420688	172468831						
	+	1725	protein_coding	chromosome 1 open reading							
frame 105 [Source:HGNC Symbol;Acc:HGNC:29591]						-	0	0			
	0	0	11	14	0	0	0				
	0.277883131	0.378865424									
ENSG00000155189	3373.700246	2846.666954	3020.419308								
2555.646997	2567.946256	2421.639902	3080.262169								
2515.077718	0.292170137	0.025873834	0.120773528	AGPAT5							
	8	6708357	6759666	+	4684	protein_coding	1-				
acylglycerol-3-phosphate 0-acyltransferase 5 [Source:HGNC											
Symbol;Acc:HGNC:20886]						-	2916	3071	3089	2544	2810
	2468	34.0459413	28.90659169	30.54945576							
26.26040605	26.14255505	24.59655618									
ENSG00000263001	1712.30328	1612.894985	1980.041793								
1477.734565	1400.033332	1353.096201	1768.413353								
1410.288033	0.326521452	0.025884047	0.12078432	GTF2I							
	7	74657667	74760692	+	10438						
protein_coding general transcription factor Iii [Source:HGNC											
Symbol;Acc:HGNC:4659]						GTF2I	1480	1740	2025	1471	1532
	1379	7.75423816	7.349637406	8.986905828							
6.813913196	6.395876519	6.167270674									
ENSG0000008441	2440.032174	2352.601995	3808.524831								
2231.168231	1756.438684	2401.034376	2867.053								
2129.547097	0.429240457	0.025934407	0.120982384	NFIX							

19	12995608	13098796	+	6302	
protein_coding	nuclear factor I X [Source:HGNC				Symbol;Acc:HGNC:7788]
CTF/NFI	2109 2538	3895 2221		1922 2447	
18.30176159	17.75608343	28.63067051		17.04007007	
13.29026321	18.12598459				
ENSG00000132563	166.6024813	348.533629		291.383928	
351.6023777	411.2369448	481.7768201		268.8400128	
414.8720475	-0.623396277	0.026010326		0.121299528	REEP2
5	138439017	138446969	+	3284	
protein_coding	receptor accessory protein 2 [Source:HGNC				
Symbol;Acc:HGNC:17975]	-	144 376		298 350	450
491	2.398026932	5.047991959		4.203543746	
5.153070835	5.971287244	6.979501092			
ENSG00000132326	497.4935206	650.7197009		677.6143024	
857.9098016	746.6235198	831.089545		608.6091746	
811.8742888	-0.414451454	0.026056933		0.12147982	PER2
2	238244038	238290102	-	6877	
protein_coding	period circadian regulator 2 [Source:HGNC				
Symbol;Acc:HGNC:8846]	-	430 702		693 854	817
847	3.419512093	4.500616891		4.668062543	
6.004267919	5.177041304	5.749504548			
ENSG00000105220	6727.732144	7570.409967		8508.801817	
4680.329936	5798.440922	7247.257827		7602.314643	
5908.676228	0.363655425	0.026098047		0.121630336	GPI
19	34359480	34402413	+	10680	
protein_coding	glucose-6-phosphate isomerase [Source:HGNC				
Symbol;Acc:HGNC:4458]	-	5815 8167		8702 4659	6345
7386	29.77646782	33.71516278		37.74420498	
21.09223854	25.88922032	32.28375824			
ENSG00000214226	82.14427898	101.9646255		86.04626062	
190.8698622	123.3710835	146.2011124		90.0517217	
153.480686	-0.767165209	0.026105131		0.121630336	
C17orf67	17 56791913	56838773	-		2410
protein_coding	chromosome 17 open reading frame 67				
[Source:HGNC	Symbol;Acc:HGNC:27900]	-		71 110	88
190	135 149	1.61115016		2.012378184	
1.691484745	3.811867313	2.441042404		2.88612583	
ENSG00000117054	1427.690708	1515.565115		1345.450621	
1045.765929	1031.747802	1288.335977		1429.568815	
1121.949903	0.349726487	0.026138148		0.121747064	ACADM
1	75724347	75787575	+	4783	
protein_coding	acyl-CoA dehydrogenase medium chain [Source:HGNC				
Symbol;Acc:HGNC:89]	-	1234 1635		1376 1041	1129
1313	14.10943072	15.07132149		13.32663518	
10.52329064	10.28613355	12.81475717			
ENSG00000137221	798.3035562	1027.988815		934.7752859	
1159.283268	1032.661661	1467.898417		920.3558858	
1219.947782	-0.405763001	0.026174022		0.121877027	TJAP1
6	43477523	43506556	+	6741	
protein_coding	tight junction associated protein 1 [Source:HGNC				

Symbol;Acc:HGNC:17949]	-	690	1109	956	1154	1130
1496	5.597827049	7.253392468		6.56955603		
8.277185688	7.304873744	10.35984606				
ENSG00000170037	592.364378	719.3140853		896.6411476		
487.2204377	523.6417098	601.4851134		736.106537		
537.449087	0.454508099	0.026190599		0.121917078		CNTR0B
17	7932101 7949918 +	6234				
protein_coding	"centrobin, centriole duplication and spindle assembly					
protein [Source:HGNC Symbol;Acc:HGNC:29616]"	-	512	776			
917	485	573	613	4.491566932	5.488186754	
6.81404494	3.761630708	4.005404872	4.590285652			
ENSG00000147606	2.313923351	7.415609127	9.777984162	0		
0	0	6.502505547	0	5.196880162		
0.026216212	1	SLC26A7 8	91209494	91398152		
+	6273	protein_coding	solute carrier family 26			
member 7 [Source:HGNC Symbol;Acc:HGNC:14467]	-	2	8			
10	0	0	0	0.017436103	0.056227485	
0.073846033	0	0	0			
ENSG00000089692	63.63289216	18.53902282	31.28954932			
19.08698622	0	4.906077597	37.8204881	7.997687939		
2.246497597	0.026246543	0.122061469	LAG3	12		
6772512 6778455 +	3056	protein_coding	lymphocyte			
activating 3 [Source:HGNC Symbol;Acc:HGNC:6476]	-	55	20			
32	19	0	5	0.984246893	0.28854304	
0.485064045	0.300608646	0	0.076377017			
ENSG00000240583	304.2809207	181.6824236	296.2729201			
165.7554066	37.46825497	30.4176811	260.7454215			
77.88044757	1.743960865	0.026249262	0.122061469			AQP1
7	30911694	30925516	+	3435		
protein_coding	aquaporin 1 (Colton blood group) [Source:HGNC					
Symbol;Acc:HGNC:633]	-	263	196	303	165	41
31	4.18720014	2.515725709	4.086187989			
2.322514421	0.520134562	0.421289843				
ENSG00000165895	527.5745241	463.4755704	455.6540619			
359.6390035	344.5251738	361.0873112	482.2347188			
355.0838295	0.441019094	0.026252419	0.122061469			
ARHGAP42	11	100687653	100993941	+	8948	
protein_coding	Rho GTPase activating protein 42 [Source:HGNC					
Symbol;Acc:HGNC:26545]	-	456	500	466	358	377
368	2.786978254	2.463644199	2.412472642			
1.93445338	1.836005477	1.919852568				
ENSG00000070423	1184.728756	1852.048379	1784.482109			
2082.490654	2041.562966	2197.922764	1607.086415			
2107.325461	-0.390213121	0.026257187	0.122061469			RNF126
19	647526 663277	-	3496	protein_coding	ring	
finger protein 126 [Source:HGNC	Symbol;Acc:HGNC:21151]					
1998	1825	2073	2234	2240	16.01855163	1024
25.19753272	24.18209376	28.67009253	27.84648241			
29.91042818						
ENSG00000128340	1469.341328	2007.776171	1879.328556			

1817.282004	2374.207962	2964.252084	1785.482018	
2385.24735	-0.417466131	0.026261541	0.122061469	RAC2
22	37225261	37244448	-	2532
protein_coding	Rac family small GTPase 2 [Source:HGNC			
Symbol;Acc:HGNC:9802]	-	1270	2166	1922 1809 2598
3021	27.43056369	37.71626764	35.16350338	
34.54427497	44.71302404	55.69716112		
ENSG0000061918	343.6176177	264.1810751	333.4292599	
238.0850386	226.6372496	165.8254228	313.7426509	
210.1825703	0.577033815	0.026281359	0.122116455	
GUCY1B1 4	155758992	155807591	+	3724
protein_coding	guanylate cyclase 1 soluble subunit beta 1			
[Source:HGNC Symbol;Acc:HGNC:4687]	-	297	285	341
237	248	169	4.36155637	3.374186983
4.241770452	3.077087813	2.90202137	2.118473658	
ENSG00000232085	13.88354011	5.561706845	0.977798416	0
0	0	6.80768179	0	5.255618479
0.026316304	1	AL606534.2	1	243164638
243169445	+	488	antisense	"novel transcript,
antisense to CEP170"	-	12	6	1 0 0
0	1.344795158	0.542082499	0.094925443	0
0	0			
ENSG0000008056	15.04050178	0	5.866790497	31.14192488
36.5543951	27.47403455	6.969097427	31.72345151	
-2.210175688	0.026336378	0.122280435	SYN1	X
47571898	47619943	-	3822	protein_coding
synapsin I [Source:HGNC Symbol;Acc:HGNC:11494]	-			13
0	6	31	40	28
0.072721533	0.392168067	0.45606622	0.18601475	0
ENSG00000154529	1.156961676	3.707804563	15.64477466	0
0	0	6.836513633	0	5.268957435
0.026336909	1	CNTNAP3B	9	41890314
42129510	-	13220	protein_coding	contactin associated
protein like 3B [Source:HGNC Symbol;Acc:HGNC:32035]	-			1
4	16	0	0	0.004136788
0.013340205	0.056064891	0	0	0
ENSG00000131381	1439.260325	1301.439402	1333.71704	
1719.837916	1962.971017	1486.541512	1358.138922	
1723.116815	-0.343803848	0.026338624	0.122280435	RBSN
3	15070073	15099163	-	7921
protein_coding	"rabenosyn, RAB effector [Source:HGNC			
Symbol;Acc:HGNC:20759]"	-	1244	1404	1364 1712 2148
1515	8.588851221	7.814857305	7.976948952	
10.45020869	11.81715308	8.928503134		
ENSG00000058063	2220.209456	1743.595096	1849.994603	
1426.501075	1646.775499	1529.714995	1937.933052	
1534.330523	0.336315461	0.026340685	0.122280435	ATP11B
3	182793500	182921635	+	9196
protein_coding	ATPase phospholipid transporting 11B (putative)			
[Source:HGNC Symbol;Acc:HGNC:13553]	-	1919	1881	1892

	1420	1802	1559	11.4122355	9.018281573		
9.530696179		7.466044915		8.53914566	7.913947929		
ENSG00000067369		1668.338736		1477.560119	1604.567201		
1402.391198		1014.384464		1277.542606	1583.488685		
1231.439423		0.36286098		0.026348646	0.122280435		
TP53BP1	15	43403061		43510728	-	12991	
protein_coding	tumor protein p53 binding protein 1 [Source:HGNC						
Symbol;Acc:HGNC:11999]	-		1442	1594	1641	1396	1110
	1302	6.070401134		5.4097811	5.851516771		
5.195699821		3.723393993		4.678584065			
ENSG00000260651	0	8.342560268		14.66697624	0	0	
	0	7.669845503		0	5.435470036	0.026424142	
	1	AF213884.3		4	102500841	102501319	
	-	479	antisense		"novel transcript, antisense		
NFKB1"	-	0	9	15	0	0	0
	0.828401648	1.450635166		0	0	0	
ENSG00000141867		3625.917892		4108.247456	4884.103089		
6121.899685		4902.858242		4908.040028	4206.089479		
5310.932652		-0.336275933		0.026488798	0.122893552		BRD4
	19	15235519		15332545	-	12093	
protein_coding	bromodomain containing 4 [Source:HGNC						
Symbol;Acc:HGNC:13575]	-		3134	4432	4995	6094	5365
	5002	14.17293032		16.15844844	19.13391743		
24.3651794		19.33277832		19.30881717			
ENSG00000100324		833.0124065		810.1552971	936.7308827		
1279.832655		949.5004126		1131.341494	859.9661954		
1120.224854		-0.381091369		0.026496983	0.12289423		TAB1
	22	39399741		39437060	+	4456	
protein_coding	TGF-beta activated kinase 1 (MAP3K7) binding protein 1						
[Source:HGNC Symbol;Acc:HGNC:18157]	-				720	874	958
	1274	1039	1153	8.83653551	8.647691905		
9.959161676		13.82373699		10.1608248	12.07897718		
ENSG00000270270	0	0		0	9.041203998	14.62175804	
	0	0	7.887654012		-5.400402153	0.026543581	
	1	BNIP3P10		19	19870723	19871299	
	-	577	processed_pseudogene		BCL2 interacting		
protein	3 pseudogene 10 [Source:HGNC Symbol;Acc:HGNC:49690]						
	0	0	0	9	16	0	0
	0	0.754167673		1.208377882	0		
ENSG00000146083		703.4326988		1074.336372	948.4644637		
1146.223751		1185.276261		1279.505037	908.7445116		
1203.66835		-0.404405689		0.026595682	0.123314587		RNF44
	5	176526697		176538025	-	5660	
protein_coding	ring finger protein 44 [Source:HGNC						
Symbol;Acc:HGNC:19180]	-		608	1159	970	1141	1297
	1304	5.874648154		9.028195663	7.938852972		
9.746987963		9.985783424		10.75492029			
ENSG00000267264		3.470885027		12.05036483	3.911193665		0
	0	0	6.477481174		0	5.19143249	
0.02660748		1	AC006504.3		19	27803538	

27804060	+	523	processed_pseudogene	vomeronasal	
receptor_pseudogene	-		3	13	4
0	0.313699827		1.095911846	0.354291521	0
0	0				
ENSG00000234840	118.0100909		169.6320588	106.5800274	
93.42577465	66.71177105		56.91050013	131.4073924	
72.34934861	0.862845343		0.026634221	0.123455832	
LINC01239	9	22646200	22824213	+	2568
lincRNA	long intergenic non-protein coding RNA	1239			
[Source:HGNC Symbol;Acc:HGNC:49796]	-		102	183	109
93	73	58	2.172200279	3.141883144	
1.966228263	1.751012094		1.238757904	1.054335938	
ENSG00000162419	609.7188031		556.1706845	539.7447257	
826.7678767	905.6351385		590.6917427	568.5447378	
774.3649193	-0.446353411		0.026662755	0.12355063	GMEB1
1	28668732		28719353	+	6459
protein_coding	glucocorticoid modulatory element binding protein 1				
[Source:HGNC Symbol;Acc:HGNC:4370]	SAND		527	600	552
823	991	602	4.462107648	4.095622534	
3.958915653	6.160780945		6.686009167	4.350881375	
ENSG00000106400	1757.424785		1518.345969	1508.742956	
1868.515493	1958.401717		2126.294031	1594.837903	
1984.403747	-0.31572743		0.026676663	0.123577622	ZNHIT1
7	101217668		101224190	+	5510
protein_coding	zinc finger HIT-type containing 1	[Source:HGNC			
Symbol;Acc:HGNC:21688]	-		1519	1638	1543
2167	15.07651235		13.10678745	12.97229401	1860
16.32159367	16.94841813		18.35918289		2143
ENSG00000270177	5.784808379		8.342560268	4.888992081	0
0	0	6.338786909	0	5.15791598	
0.026707839	1	AC104109.2	5	134226410	
134227827	+	1418	lincRNA novel transcript		-
5	9	5	0	0	0
0.279833843	0.163341383		0	0	0.192836165
ENSG00000260231	18.51138681		23.17377852	19.55596832	
65.29758443	30.15737595		60.83536221	20.41371122	
52.0967742	-1.348441177		0.026721824	0.123749326	KDM7A-
DT	7	140177184	140179640	+	2457
bidirectional_promoter_lncRNA	KDM7A divergent transcript				
[Source:HGNC Symbol;Acc:HGNC:48959]	-		16	25	20
65	33	62	0.356130803	0.448609855	
0.377074614	1.279114484		0.585284983	1.177965494	
ENSG00000185989	2806.789025		3475.139827	3413.494271	
3892.74061	4027.38048		3979.810147	3231.807708	
3966.643746	-0.295274605		0.026730361	0.123751373	RASA3
13	113977783		114132611	-	4763
protein_coding	RAS p21 protein activator 3	[Source:HGNC			
Symbol;Acc:HGNC:20331]	-		2426	3749	3491
4056	27.8551132		34.70314356	33.95249728	3875
39.33619442	40.32005044		39.75240429		4407

ENSG00000239305	319.3214225	322.578997	308.0065011	
329.5016568	561.1099647	481.7768201	316.6356402	
457.4628139	-0.531410592	0.026754335	0.123824864	RNF103
2	86603393	86623866	- 7599	
protein_coding	ring finger protein 103	[Source:HGNC		
Symbol;Acc:HGNC:12859]	-	276 348	315 328	614
491	1.986311469	2.019095019	1.920244656	
2.086981579	3.521036478	3.016276034		
ENSG00000239900	298.4961123	262.3271729	271.8279597	
161.7370937	187.3412749	213.9049832	277.550415	
187.6611173	0.563840744	0.026817483	0.12406076	ADSL
22	40346500	40390463	+ 7111	
protein_coding	adenylosuccinate lyase	[Source:HGNC		
Symbol;Acc:HGNC:291]	-	258 283	278 161	205
218	1.984192209	1.754646825	1.810992172	
1.094703266	1.256266504	1.431106159		
ENSG00000081853	15.04050178	7.415609127	2.933395248	
45.20601999	38.38211485	13.73701727	8.46316872	
32.44171737	-1.952276325	0.026821535	0.12406076	
PCDHGA2 5	141338760	141512979	+ 6724	
protein_coding	"protocadherin gamma subfamily A, 2	[Source:HGNC		
Symbol;Acc:HGNC:8700]"	-	13 8	3 45	42
14	0.105732953	0.052456129	0.020667884	
0.323583245	0.272195025	0.097195547		
ENSG00000185933	3.470885027	1.853902282	14.66697624	0
0	0	6.663921184	0	5.230400651
0.026841395	1	CALHM1 10	103453387	103458888
-	3053	protein_coding	calcium homeostasis modulator	
1 [Source:HGNC	Symbol;Acc:HGNC:23494]	-	3 2	15
0	0	0	0.053738948	0.028882657
0.227597198	0	0	0	
ENSG00000017483	17.35442514	28.73548537	6.844588913	
53.24264577	63.05633154	34.34254318	17.64483314	
50.21384016	-1.506584865	0.026850207	0.124109932	
SLC38A5 X	48458537	48470256	- 4014	
protein_coding	solute carrier family 38 member 5	[Source:HGNC		
Symbol;Acc:HGNC:18070]	-	15 31	7 53	69
35	0.204365981	0.340500915	0.080783586	
0.638410054	0.749083654	0.407039646		
ENSG00000197603	712.6883922	574.7097073	711.837247	
500.2799546	406.6676454	561.2552771	666.4117822	
489.4009591	0.445311358	0.026853132	0.124109932	
CPLANE1 5	37106228	37249428	- 15146	
protein_coding	ciliogenesis and planar polarity effector 1	[Source:HGNC		
Symbol;Acc:HGNC:25801]	-	616 620		728
498	445 572	2.224218622	1.804794235	
2.226567587	1.589763812	1.280326269	1.762966712	
ENSG00000147894	421.13405	492.2110558	349.0740346	
543.4768181	722.863163	506.307208	420.8063801	
590.8823964	-0.4898353	0.026856522	0.124109932	

C9orf72	9	27546545	27573866	-	6332	
protein_coding		chromosome 9	open reading frame	72	[Source:HGNC	
Symbol;Acc:HGNC:28337]		-	364	531	357	541 791
		516	3.143802031	3.697324536	2.611738949	
4.131022643		5.443699895	3.804125458			
ENSG00000225234	0	3.707804563	0.977798416		56.25638043	
		3.65543951	0	1.56186766		
19.97060665		-3.642401386	0.026899599	1	TRAPPC12-AS1	
		2	3481242 3482409	-	908	antisense
TRAPPC12 antisense RNA 1		[Source:HGNC	Symbol;Acc:HGNC:41046]		-	
		0	4	1	56	4 0 0
0.194226329		0.051017199	2.981970859	0.191969724	0	
ENSG00000169826		1336.290735	1303.293304	1070.689266		
1597.279373		1784.768341	1382.532667	1236.757768		
1588.19346		-0.361187929	0.026914549	0.124340497		
CSGALNACT2		10	43138486	43185308	+	3730
protein_coding		chondroitin sulfate N-				
acetylgalactosaminyltransferase 2		[Source:HGNC	Symbol;Acc:HGNC:24292]			
		-	1155	1406	1095	1590 1953 1409
16.93432402		16.61921273	13.59902409	20.61054657		
22.81665676		17.63389283				
ENSG00000154217		56.69112211	70.4482867	66.4902923		
121.5539649		106.9216057	115.7834313	64.5432337		
114.7530006		-0.828072419	0.026969164	0.124529489		
PITPNC1		17	67377281	67697261	+	7819
protein_coding		phosphatidylinositol transfer protein cytoplasmic 1				
[Source:HGNC		Symbol;Acc:HGNC:21045]		-	49	76 68
		121	117	118	0.342720103	0.428544906
0.402865572		0.748230442	0.652068538	0.70449324		
ENSG00000137075		695.3339671	583.9792187	754.8603773		
517.3577843		523.6417098	488.6453287	678.0578544		
509.8816076		0.410855071	0.026978504	0.124529489		RNF38
		9	36336396	36487548	-	6138
protein_coding		ring finger protein 38				
[Source:HGNC		Symbol;Acc:HGNC:18052]		-	601	630 772 515 573
		498	5.354788236	4.525302581	5.82630039	
4.056780981		4.068050501	3.787463834			
ENSG00000280355		38.1797353	40.7858502	41.06753348		
98.44866576		76.7642297	66.72265532	40.01103966		
80.6451836		-1.01014763	0.026979896	0.124529489		
AL132656.4		10	79681973	79684094	-	2122
TEC		novel transcript		-	33	44 42
		98	84	68	0.850478371	0.91420008
0.916867052		2.232964983	1.725013524	1.495924135		
ENSG00000165507		325.1062309	114.9419415	67.46809072		
107.4898698		68.53949081	59.85414669	169.1720877		
78.62783575		1.103025749	0.026992958	0.124552173		DEPP1
		10	44970981	44978810	-	2979
protein_coding		"DEPP1, autophagy regulator				
[Source:HGNC		Symbol;Acc:HGNC:23355]"		-	281	124 69 107 75

61	5.158584269	1.83520735	1.072953852		
1.736658759	1.097107939	0.955884386			
ENSG00000212443	4.627846703	5.561706845	8.800185745	0	
0	0	6.329913098	0	5.156143851	
0.027016551	1	SNORA53	12	98599635	98599883
+	249	snoRNA	"small nucleolar RNA, H/ACA box	53	
[Source:HGNC Symbol;Acc:HGNC:32646]"	-	4	6	9	
0	0	0	0.878527493	1.062394616	
1.674347578	0	0	0		
ENSG00000187144	3.470885027	3.707804563	5.866790497		
50.2289111	2.741579632	19.62431039	4.348493363		
24.19826704	-2.471153026	0.027029339	0.124682407		
SPATA21	1	16387117	16437424	-	4506
protein_coding	spermatogenesis associated 21	[Source:HGNC			
Symbol;Acc:HGNC:28026]	-	3	4	6	50
20	0.036410344	0.039138372	0.061682578		3
0.536512733	0.029012735	0.207197659			
ENSG00000250764	0	0.926951141	4.888992081	18.082408	
12.79403828	15.69944831	1.938647741	15.5252982		
-2.97803725	0.02706638	1	AC025178.1	5	
32103445	32121941	-	834	antisense	
novel transcript	-	0	1	5	18
14	16	0	0.05286496	0.277719522	
1.043536565	0.731510531	0.895570888			
ENSG00000100564	441.9593601	494.0649581	388.1859712		
589.6874163	716.4661439	513.1757167	441.4034298		
606.4430923	-0.458403036	0.027080645	0.124871918	PIGH	
14	67581955	67600287	-	2915	
protein_coding	phosphatidylinositol glycan anchor biosynthesis class				
H [Source:HGNC Symbol;Acc:HGNC:8964]	-	382	533	397	
587	784	523	7.166704809	8.061625289	
6.308911038	9.736452706	11.72022911	8.37546958		
ENSG00000106991	1508.678025	1802.919969	2979.351774		
1873.538384	1319.613663	1238.293986	2096.983256		
1477.148678	0.505877832	0.027086759	0.124871918	ENG	
9	127815012	127854756	-	3935	
protein_coding	endoglin	[Source:HGNC Symbol;Acc:HGNC:3349]			
1304	1945	3047	1865	1444	1262
21.79258893	35.86990061	22.91581544	18.12289472	15.99119997	
14.97133934					
ENSG00000268941	782.1060928	959.3944308	808.6392902		
1100.013153	840.7510872	1643.535995	850.0466046		
1194.766745	-0.490578519	0.027095981	0.124876775		
LINC01711	20	58634772	58635738	+	967
lincRNA	long intergenic non-protein coding RNA	1711			
[Source:HGNC Symbol;Acc:HGNC:28663]	-	676	1035	827	
1095	920	1675	38.23093633	47.18976707	
39.61699141	54.75059732	41.45910772	80.86011844		
ENSG00000270673	28.92404189	14.83121825	11.73358099	0	
5.483159264	2.943646558	18.49628038	2.808935274		

	2.703896256	0.027104189	1	YTHDF3-AS1	8	
	63167725	63168442	-	718	lincRNA YTHDF3	
antisense RNA 1 (head to head) [Source:HGNC				Symbol;Acc:HGNC:48728]		
	-	25	16	12	0	6
						3
1.904189987	0.982493071	0.774210858	0	0	0.364154268	
	0.195048604					
ENSG00000259030	0	0	3.911193665	12.05493866		
20.1049173	9.812155195		1.303731222			
13.99067039	-3.403633716	0.027207047	1	FPGT-TNNI3K		
	1	74198235	74544393	+	9896	
protein_coding	FPGT-TNNI3K	readthrough [Source:HGNC				
Symbol;Acc:HGNC:42952]	-	0	0	4	12	22
	10	0	0	0.018724178	0.058630389	
0.096877203	0.047172224					
ENSG00000127152	135.3645161	265.1080263	47.91212239			
353.6115342	653.4098124	332.6320611	149.4615549			
446.5511359	-1.578669537	0.027221199	0.125416053	BCL11B		
	14	99169287	99271524	-	7855	
protein_coding	B cell CLL/lymphoma 11B [Source:HGNC					
Symbol;Acc:HGNC:13222]	zf-C2H2	117	286	49	352	715
	339	0.814581205	1.605291114	0.288969726		
2.166694548	3.966600389	2.014649705				
ENSG00000140807	32.39492692	6.488657986	79.20167171			
18.082408	5.483159264	4.906077597	39.36175221			
9.490548286	2.055800833	0.02724548	0.125490102	NKD1		
	16	50548330	50649249	+	17425	
protein_coding	naked cuticle homolog 1 [Source:HGNC					
Symbol;Acc:HGNC:17045]	-	28	7	81	18	6
	5	0.087877958	0.017711658	0.215335031		
0.049946026	0.015005037	0.013395017				
ENSG00000171084	155.0328645	126.0653552	113.4246163			
202.9248008	187.3412749	226.660785	131.507612			
205.6422869	-0.646725235	0.027272629	0.125577315			
FAM86JP 3	125916620	125930024	+	2519		
transcribed_unprocessed_pseudogene	"family with sequence					
similarity 86 member J, pseudogene [Source:HGNC						
Symbol;Acc:HGNC:44097]"	-	134	136	116	202	205
	231	2.909185027	2.380371264	2.133203451		
3.87725548	3.546372016	4.2808484				
ENSG00000219790	4.627846703	7.415609127	6.844588913	0		
	0	6.296014914	0	5.148773124		
0.027280661	1	OSTCP6	6	56975606	56976062	
	-	457	processed_pseudogene			
oligosaccharyltransferase complex subunit pseudogene 6 [Source:HGNC						
Symbol;Acc:HGNC:42868]	-	4	8	7	0	0
	0	0.478672529	0.771805279	0.70955211	0	
	0					
ENSG00000149357	2427.305596	2720.601598	2478.718985			
2837.933477	3104.382004	3444.066473	2542.208726			
3128.793985	-0.299377651	0.02728897	0.125601951			

LAMTOR1 11	72085895	72103387	-	2778	
protein_coding	"late endosomal/lysosomal adaptor, MAPK and MTOR				
activator 1 [Source:HGNC Symbol;Acc:HGNC:26068]"				-	2098
2935	2535	2825	3397	3510	41.3017026
46.5811088	42.27155052	49.16855298	53.28707762		
58.98219232					
ENSG00000116641	2715.389053	2061.539337	2270.447922		
1920.753561	1894.431526	1809.361418	2349.125437		
1874.848835	0.324898596	0.027297055	0.125601951		DOCK7
1	62454298	62688368	-	24872	
protein_coding	dedicator of cytokinesis 7 [Source:HGNC				
Symbol;Acc:HGNC:19190]	-	2347	2224	2322	1912
1844	5.160563107	3.942375905	4.324679844		2073
3.716878762	3.632011298	3.460957319			
ENSG00000213063	0	0	0	11.05036044	2.741579632
5.887293117	0	6.559744397	-5.132095389		
0.027308194	1	RPL29P7 1	168938467	168938923	
+	457	processed_pseudogene	ribosomal protein L29		
pseudogene 7 [Source:HGNC Symbol;Acc:HGNC:36859]				-	0
0	0	11	3	6	0
1.163798255	0.286064293	0.612887955			
ENSG00000176533	80.9873173	197.440593	199.4708769		
211.9660048	294.2628805	305.1580266	159.2995957		
270.462304	-0.760466227	0.027311002	0.125601951		GNG7
19	2511219	2702709	-	4561	protein_coding G
protein subunit	gamma 7 [Source:HGNC Symbol;Acc:HGNC:4410]				-
70	213	204	211	322	311
2.058986453	2.071917941	2.236781693	3.076482133		
3.183071196					
ENSG00000102893	919.7845322	604.3721438	734.3266105		
669.0490959	494.3981937	446.4530614	752.8277622		
536.6334503	0.487754468	0.02731122	0.125601951		PHKB
16	47461123	47701523	+	11822	
protein_coding	phosphorylase kinase regulatory subunit beta				
[Source:HGNC Symbol;Acc:HGNC:8927]				-	795
666	541	455	3.677654159	2.4315914	652
2.942736919	2.723858172	1.994182532	1.796662393		751
ENSG00000124357	594.6783013	722.0949387	534.8557336		
718.2734287	830.6986286	931.173528	617.2096579		
826.7151951	-0.42125842	0.027325769	0.125601951		NAGK
2	71064344	71079805	+	8894	
protein_coding	N-acetylglucosamine kinase [Source:HGNC				
Symbol;Acc:HGNC:17174]	-	514	779	547	715
949	3.160535746	3.861662284	2.849001363		909
3.886960553	4.453745083	4.98098373			
ENSG00000008394	2234.092996	1597.136816	1467.675423		
1328.05241	1396.377893	1328.565813	1766.301745		
1350.998705	0.386015281	0.027327277	0.125601951		MGST1
12	16347142	16609259	+	7440	
protein_coding	microsomal glutathione S-transferase 1 [Source:HGNC				

Symbol;Acc:HGNC:7061]	-	1931	1723	1501	1322	1528
1354	14.19397549	10.21048331	9.345665065			
8.591316847	8.949711102	8.495555172				
ENSG00000241015	112.2252825	122.3575506	139.8251735			
269.2269635	167.2363576	172.6939314	124.8026689			
203.0524175	-0.700679768	0.027347527	0.125605095			TPM3P9
19	53431984	53444670	+	2920		
transcribed_processed_pseudogene		tropomyosin 3 pseudogene 9				
[Source:HGNC Symbol;Acc:HGNC:44142]	-	97	132	143		
268	183	176	1.816701587	1.993081407		
2.268588059	4.437651153	2.731032296	2.813687442			
ENSG00000269293	77.51643227	52.83621503	31.28954932	0		
5.483159264	33.36132766	53.88073221	12.94816231			
2.056730099	0.027351954	0.125605095	ZSCAN16-AS1			
6	28121795	28137293	-	2163		
antisense	ZSCAN16 antisense RNA 1	[Source:HGNC				
Symbol;Acc:HGNC:48982]	-	67	57	32	0	6
34	1.693998401	1.161855971	0.685323958			0
0.120879688	0.733784331					
ENSG00000186918	613.1896881	579.344463	556.3672988			
667.0399394	842.578807	786.9348466	582.96715			
765.5178643	-0.393632276	0.027352611	0.125605095			ZNF395
8	28345585	28402701	-	5819		
protein_coding	zinc finger protein 395	[Source:HGNC				
Symbol;Acc:HGNC:18737]	-	530	625	569	664	922
802	4.981065185	4.73549757	4.52966793			
5.51722809	6.904641935	6.433866525				
ENSG00000111196	684.921312	595.1026324	559.300694			
523.3852537	462.413098	333.6132766	613.1082128			
439.8038761	0.478789803	0.02737293	0.125660654			MAGOHB
12	10604190	10613623	-	4856		
protein_coding	"mago homolog B, exon junction complex subunit	[Source:HGNC Symbol;Acc:HGNC:25504]"	-	592	642	572
521	506	340	6.667111855	5.828949704		
5.45657095	5.187525705	4.540779745	3.268483334			
ENSG00000130475	119.1670526	154.8008405	117.3358099			
233.0621475	161.7531983	230.5856471	130.4345677			
208.4669976	-0.674534316	0.027417755	0.125828646			FCH01
19	17747718	17788568	+	5694		
protein_coding	FCH domain only 1	[Source:HGNC Symbol;Acc:HGNC:29002]				
-	103	167	120	232	177	235
0.98926917	1.293102545	0.976261672	1.970025005			
1.354610387	1.926621646					
ENSG00000169733	733.5137024	1294.950744	1094.156428			
1281.841811	1374.445256	1598.400081	1040.873625			
1418.229049	-0.445278549	0.027433962	0.125837697			RFNG
17	82047902	82051831	-	3865		
protein_coding	RFNG 0-fucosylpeptide 3-beta-N-	acetylglucosaminyltransferase	[Source:HGNC Symbol;Acc:HGNC:9974]			
-	634	1397	1119	1276	1504	1629

8.970868124	15.93605668	13.41167572	15.96255448	
16.95730907	19.67513051			
ENSG00000106511	381.797353	277.1583911	352.0074298	
123.5631213	211.1016317	294.3646558	336.9877246	
209.6764696	0.683518042	0.02743619	0.125837697	MEOX2
7	15611212	15686812	- 2500	
protein_coding	mesenchyme homeobox 2 [Source:HGNC			
Symbol;Acc:HGNC:7014]	Homeobox	330	299	360 123
231	300	7.218860409	5.273089439	6.670600749
2.378845953	4.026526567	5.601795907		
ENSG00000138398	1689.164047	1714.859611	1672.035292	
1272.800607	1485.936161	1332.490675	1692.01965	
1363.742481	0.3110085	0.027464663	0.125930506	PPIG
2	169584340	169641406	+ 7368	
protein_coding	peptidylprolyl isomerase G [Source:HGNC			
Symbol;Acc:HGNC:14650]	-	1460	1850	1710 1267 1626
1358	10.83672247	11.07021535	10.75100216	
8.314348308	9.616776476	8.603916532		
ENSG00000213041	0	0	9.041203998	6.397019142
3.924862078	0	6.454361739	-5.109844222	
0.027483074	1	AC093422.1	1	205202191
205202742	+	552	processed_pseudogene	ribosomal
protein L17 (RPL17)	pseudogene	-	0	0 0 9
7	4	0	0	0.788323818
0.552608499	0.3382727			
ENSG00000176715	1107.212324	1535.95804	1324.916854	
1813.263691	1545.337053	1737.732685	1322.695739	
1698.777809	-0.360201761	0.027498295	0.126046907	ACSF3
16	89088375	89164121	+ 14618	
protein_coding	acyl-CoA synthetase family member 3 [Source:HGNC			
Symbol;Acc:HGNC:27288]	-	957	1657	1355 1805 1691
1771	3.580294019	4.997680735	4.293918464	
5.97022179	5.040971566	5.655573352		
ENSG00000198585	688.3921971	675.7473817	954.3312542	
639.9163274	357.3192121	611.2972686	772.823611	
536.1776027	0.528208462	0.027510166	0.126056215	NUDT16
3	131381671	131388830	+ 7029	
protein_coding	nudix hydrolase 16 [Source:HGNC Symbol;Acc:HGNC:26442]			
-	595	729	976	637 391 623
4.629329944	4.572649812	6.43218801	4.381745058	
2.42405133	4.137524126			
ENSG00000179588	465.0985936	761.9538378	789.0833218	
826.7678767	1014.384464	953.7414849	672.0452511	
931.6312752	-0.470000138	0.027516817	0.126056215	ZFPM1
16	88453317	88537016	+ 6110	
protein_coding	"zinc finger protein, FOG family member 1 [Source:HGNC			
Symbol;Acc:HGNC:19762]"	zf-C2H2	402	822	807 823 1110
972	3.598152413	5.931500417	6.118356524	
6.512681526	7.916630338	7.426276079		
ENSG00000175348	955.6503441	800.8857857	696.1924723	

491.2387506	659.8068315	658.3956136	817.5762007	
603.1470652	0.437897681	0.027564612	0.126237337	TMEM9B
11	8947294	8965011 -	3064	protein_coding TMEM9
domain family member B [Source:HGNC Symbol;Acc:HGNC:1168]				
826	864	712	489	722 671 14.74300453
12.4325135	10.7644957	7.716516953	10.26850064	
10.22303376				
ENSG00000177200	2340.53347	1643.484373	2219.602405	
1753.993576	1387.239294	1641.573564	2067.873416	
1594.268811	0.37503246	0.027604982	0.126384356	CHD9
16	53055033	53329150	+	16504
protein_coding chromodomain helicase DNA binding protein 9				
[Source:HGNC Symbol;Acc:HGNC:25701]				
1746	1518	1673	6.703496401	4.736455688
6.371462011	5.115124879	4.00812405	4.732087449	
ENSG00000176476	397.9948164	494.0649581	489.8770065	
697.1772861	564.7654042	602.466329	460.6455937	
621.4696731	-0.430727258	0.02761935	0.126412275	SGF29
16	28553915	28591790	+	2124
protein_coding SAGA complex associated factor 29 [Source:HGNC				
Symbol;Acc:HGNC:25156]				
614	8.857244695	11.06385957	10.92661571	618
15.79814787	12.67922067	13.49459623		
ENSG00000122912	587.7365313	466.2564238	524.0999511	
728.319211	707.3275451	649.5646739	526.0309687	
695.0704767	-0.403014589	0.027676855	0.126637556	
SLC25A16	10	68477999	68527474	-
protein_coding solute carrier family 25 member 16				
[Source:HGNC Symbol;Acc:HGNC:10986]				
725	774	662	3.554916815	2.837742344
3.177153979	4.485493593	4.315892076	3.954349424	
ENSG00000161653	20.82531016	96.40291865	86.04626062	
159.7279373	127.9403828	135.4077417	67.75816314	
141.0253539	-1.051224559	0.027704958	0.126728215	NAGS
17	44004546	44009063	+	2822
protein_coding N-acetylglutamate synthase [Source:HGNC				
Symbol;Acc:HGNC:17996]				
138	0.348827093	1.624838825	1.444535165	140
2.724214696	2.161870244	2.282801309		
ENSG00000122218	7151.180118	6442.310429	7199.529738	
5526.184799	5354.305022	6289.59148	6931.006762	
5723.360434	0.276171777	0.027733845	0.126822401	COPA
1	160288686	160343400	-	7723
protein_coding coatamer protein complex subunit alpha [Source:HGNC				
Symbol;Acc:HGNC:2230]				
6410	43.76908034	39.67644273	44.16428679	
34.43949912	33.05948325	38.74521102		
ENSG00000172236	0	0	0	29.24351608
0	9.747838692	-5.706890069	0.02774237	1
TPSAB1	16	1240696	1242554	+
			1512	protein_coding

		tryptase alpha/beta 1 [Source:HGNC Symbol;Acc:HGNC:12019]				
-	0	0	0	0	32	0
0	0	0	0.922267246	0		
ENSG00000226107	11.56961676		2.780853423	4.888992081		0
0	0	6.413154087	0	5.169688733		
0.027749098	1	AC004383.1	X	134522702		
134522990	+	289	processed_pseudogene	ribosomal		
protein_L36a (RPL36A) pseudogene			-	10	3	5
0	0	0	1.89232998	0.457675189		
0.801446649	0	0	0			
ENSG00000150768	2468.956216		2473.105644	2321.29344		
2048.334995	1814.011857		2067.4211	2421.118433		
1976.589317	0.292744109		0.027750719	0.126861616		DLAT
11	112024814		112064390	+	4831	
protein_coding	dihydrolipoamide	S-acetyltransferase [Source:HGNC				
Symbol;Acc:HGNC:2896]		-	2134	2668	2374	2039
2107	24.15750568		24.3490906	22.7638719		
20.40710527	17.90531935		20.35980124			
ENSG0000010256	4694.95048		4269.536955	5235.13272		
3834.475073	3626.195994		4141.710708	4733.206718		
3867.460592	0.291442037		0.027775951	0.126939001		UQCRC1
3	48599002		48610976	-	3236	
protein_coding	ubiquinol-cytochrome c reductase	core protein 1				
[Source:HGNC Symbol;Acc:HGNC:12585]		-		4058	4606	5354
3817	3968	4221	68.58012028	62.75515096		
76.64296716	57.0315091		53.4344998	60.89096756		
ENSG00000162769	645.584615		553.3898311	826.2396617		
485.2112812	359.1469318		581.860803	675.0713693		
475.4063387	0.506299082		0.027850055	0.127214431		FLVCR1
1	212858255		212899363	+	6442	
protein_coding	feline leukemia virus subgroup C	cellular receptor 1				
[Source:HGNC Symbol;Acc:HGNC:24682]		-		558	597	845
483	393	593	4.737052426	4.08589845		
6.076289318	3.625163735		2.658461821	4.297145002		
ENSG00000069702	377.1695063		322.578997	279.650347		
230.0484128	233.0342687		215.8674143	326.4662834		
226.3166986	0.527489986		0.027852862	0.127214431		TGFBR3
1	91680343		91906335	-	8705	
protein_coding	transforming growth factor beta	receptor 3				
[Source:HGNC Symbol;Acc:HGNC:11774]		-		326	348	286
229	255	220	2.048064064	1.762562096		
1.521947647	1.271943802		1.276526993	1.179777043		
ENSG00000250497	10.41265508		10.19646255	0.977798416		
12.05493866	40.20983461		40.2298363	7.195638682		
30.83153652	-2.105443242		0.027861362	0.127215243		
AC007126.1	4	13777377	13782157	-		4781
lincRNA	novel transcript		-	9	11	1
12	44	41	0.102948134	0.101439687		
0.009689106	0.121356689		0.401044468	0.400323559		
ENSG00000150753	10509.83986		9653.269181	10085.99066		

8668.505478	8129.697469	8649.414804	10083.03324	
8482.53925	0.249331571	0.027881624	0.127251963	CCT5
5	10249921	10266412	+ 5839	
protein_coding	chaperonin containing TCP1 subunit 5 [Source:HGNC			
Symbol;Acc:HGNC:1618]	-	9084	10414	10315 8629 8896
8815	85.08115228	78.63448667	81.83389318	
71.45345123	66.39186932	70.47415499		
ENSG00000142185	23.13923351	55.61706845	50.84551764	
25.11445555	0	1.962431039	43.20060654	9.025628863
2.267685751	0.027886052	0.127251963	TRPM2	21
44350163	44443081	+	6705	protein_coding
transient receptor potential cation channel subfamily M member				
2 [Source:HGNC	Symbol;Acc:HGNC:12339]	-	20	60 52
25	0	2	0.163127029	0.394535808
0.359258471	0.18027788	0	0.013924424	
ENSG00000146122	142.3062861	278.0853423	247.3829993	
144.659264	155.3561792	101.0651985	222.5915426	
133.6935472	0.737157343	0.027933508	0.127398778	DAAM2
6	39792298	39904877	+ 12955	
protein_coding	dishevelled associated activator of morphogenesis 2			
[Source:HGNC	Symbol;Acc:HGNC:18143]	-	123	300 253
144	170	103	0.519233144	1.020981318
0.904660357	0.537435427	0.571834168	0.371146905	
ENSG00000152558	8831.088471	7440.636808	7691.362342	
5766.278994	7427.853084	6215.0191	7987.695873	
6469.717059	0.303911234	0.027934893	0.127398778	
TMEM123 11	102396332	102470384	- 4647	
protein_coding	transmembrane protein 123 [Source:HGNC			
Symbol;Acc:HGNC:30138]	-	7633	8027	7866 5740 8128
6334	89.82915257	76.1578278	78.41221561	
59.72283792	76.2201186	63.6284615		
ENSG00000178607	220.9796801	294.7704628	260.0943787	
337.5382826	350.9221929	422.9038889	258.6148405	
370.4547881	-0.516929663	0.027952565	0.127441354	ERN1
17	64039142	64130819	- 10864	
protein_coding	endoplasmic reticulum to nucleus signaling 1			
[Source:HGNC	Symbol;Acc:HGNC:3449]	-	191	318 266
336	384	431	0.961475723	1.290539557
1.134212255	1.495377139	1.540281379	1.851968302	
ENSG00000132153	4428.849295	5494.966363	5197.97638	
6450.396764	6131.085918	5851.969358	5040.597346	
6144.484013	-0.285482937	0.027994574	0.127594827	DHX30
3	47802909	47850195	+ 7744	
protein_coding	DExH-box helicase 30 [Source:HGNC			
Symbol;Acc:HGNC:16716]	-	3828	5928	5316 6421 6709
5964	27.03343903	33.75023558	31.79963124	
40.09022947	37.75296325	35.95160854		
ENSG00000108379	297.3391507	249.3498569	454.6762635	
257.1720248	173.6333767	214.8861988	333.7884237	
215.2305334	0.633857119	0.028015905	0.127653989	WNT3

17	46762506	46833154	-	4334	
protein_coding	Wnt family member 3 [Source:HGNC				
Symbol;Acc:HGNC:12782]	-	257	269	465	256 190
219	3.242940116	2.736511837	4.970115733		
2.855961015	1.910395523	2.358854991			
ENSG00000285560	4.627846703	0	0	21.09614266	
18.27719755	5.887293117	1.542615568			
15.08687778	-3.356914721	0.028016668	1	AC103739.3	
15	90630535	90631755	-	888	
antisense	"novel transcript, antisense to CRTC3"				
0	0	21	20	6	0.246343858 0
0	1.143424637	0.981466832	0.315416436		
ENSG00000257954	0	3.707804563	2.933395248	32.1465031	
8.224738897	9.812155195	2.213733271	16.72779907		
-2.885502813	0.028022594	1	AC125611.2	12	
49389516	49390162	+	647		
processed_pseudogene	FGFR1 oncogene partner 2 (FGFR10P2) pseudogene				
-	0	4	3	32	9 10 0
0.27257729	0.214792657	2.391370757	0.606173333		
0.721509004					
ENSG00000271032	31.23796524	3.707804563	14.66697624	0	
0	4.906077597	16.53758202	1.635359199		
3.340849846	0.028027104	1	AC020907.4	19	
35014961	35025335	-	526	antisense	novel
transcript	-	27	4	15	0 0 5
2.807195977	0.33528043	1.321015674	0	0	0
0.443741754					
ENSG00000100124	1063.24778	1208.744288	1252.559771		
1375.267586	1663.224977	1423.743719	1174.850613		
1487.412094	-0.340076973	0.028052197	0.127781268		
ANKRD54 22	37830855	37849327	-	4487	
protein_coding	ankyrin repeat domain 54 [Source:HGNC				
Symbol;Acc:HGNC:25185]	-	919	1304	1281	1369 1820
1451	11.20093184	12.8131373	13.22499498		
14.75192158	17.67558988	15.09584329			
ENSG00000166136	97.18478076	144.604378	203.3820706		
79.36167954	83.16124884	89.29061227	148.3904098		
83.93784689	0.823929857	0.028100925	0.127938546	NDUFB8	
10	100523740	100530000	-	1999	
protein_coding	NADH:ubiquinone oxidoreductase subunit B8 [Source:HGNC				
Symbol;Acc:HGNC:7703]	-	84	156	208	79 91
91	2.29805916	3.440691719	4.82006613		
1.910801237	1.98375117	2.12507682			
ENSG00000259498	46.27846703	29.66243651	40.08973506		
12.05493866	7.310879019	19.62431039	38.67687953		
12.99670936	1.574269656	0.028103463	0.127938546	TPM1-	
AS 15	63046034	63049387	-	3354	
antisense	TPM1 antisense RNA [Source:HGNC Symbol;Acc:HGNC:53635]				
-	40	32	41	12	8 20
0.652216296	0.420649985	0.566269609	0.172989365		

0.103940673	0.278363939						
ENSG00000162227	430.3897434	854.6489519	756.8159741				
984.4866576	955.8974318	941.9668987	680.6182231				
960.7836627	-0.495853032	0.028115417	0.12795486	TAF6L			
11	62771303	62787342	+ 3149				
protein_coding	TATA-box binding protein associated factor 6 like						
[Source:HGNC Symbol;Acc:HGNC:17305]	-	372	922	774			
980	1046	960	6.460483059	12.90898863			
11.38598889	15.04716321	14.47496831	14.23130113				
ENSG00000199753	12.72657843	24.10072966	23.46716199	0			
0	7.849724156	20.09815669	2.616574719				
2.948585447	0.028125527	1	SNORD104	17			
64146083	64146152	+	70	snoRNA "small			
nucleolar RNA, C/D box 104	[Source:HGNC Symbol;Acc:HGNC:32768]" -						
11	26	24	0	0	8	8.593881439	
16.37605416	15.88238274	0	0	5.335043721			
ENSG00000134852	1299.267962	1132.734294	1291.671708				
950.330998	918.4291768	1069.524916	1241.224655				
979.4283637	0.341564738	0.028186559	0.128240161	CLOCK			
4	55427903	55547138	- 11762				
protein_coding	clock circadian regulator [Source:HGNC						
Symbol;Acc:HGNC:2082]	bHLH	1123	1222	1321	946	1005	
1090	5.221476094	4.580617087	5.202643866				
3.888760331	3.723432494	4.326048247					
ENSG00000135378	322.7923075	239.1533943	264.0055724				
469.1380297	403.0122059	320.8574749	275.3170914				
397.6692368	-0.531902621	0.028194883	0.128240161	PRRG4			
11	32829943	32858123	+ 5530				
protein_coding	proline rich and Gla domain 4 [Source:HGNC						
Symbol;Acc:HGNC:30799]	-	279	258	270	467	441	
327	2.759140301	2.056972723	2.261731719				
4.083127729	3.475138004	2.760378634					
ENSG00000164828	6135.367766	5524.628799	6005.637872				
4863.163173	4479.741119	5266.183693	5888.544813				
4869.695995	0.274048986	0.028219342	0.128301228	SUN1			
7	816615	896435	+ 11811	protein_coding	Sad1		
and UNC84 domain containing 1	[Source:HGNC Symbol;Acc:HGNC:18587]						
-	5303	5960	6142	4841	4902	5367	
24.55441945	22.24813178	24.08937866	19.81753481				
18.0861128	21.21245635						
ENSG00000178401	245.2758753	213.1987624	394.0527617				
173.7920324	116.9740643	227.6420005	284.1757998				
172.8026991	0.718696177	0.028225095	0.128301228				
DNAJC22	12	49346917	49357546	+	5109		
protein_coding	DnaJ heat shock protein family (Hsp40) member C22						
[Source:HGNC Symbol;Acc:HGNC:25802]	-	212	230	403			
173	128	232	2.269314411	1.984841772			
3.654025714	1.637236496	1.091773792	2.119815767				
ENSG00000119906	1774.779211	1378.376346	1451.05285				
1236.635791	1295.853306	1060.693977	1534.736136				

1197.727691	0.357044633	0.028285186	0.128536161	SLF2
10	100912569	100965136	+ 9208	
protein_coding	SMC5-SMC6 complex localization factor 2 [Source:HGNC			
Symbol;Acc:HGNC:17814]	-	1534 1487	1484 1231	1418
1081	9.110763259	7.119993807	7.465708798	
6.463890024	6.710726172	5.480326324		
ENSG00000133884	1707.675433	1694.466685	1532.210118	
2124.68294	2087.25596	1876.084073	1644.784079	
2029.340991	-0.303238904	0.028329148	0.128697676	DPF2
11	65333754	65353249	+ 7715	
protein_coding	double PHD fingers 2 [Source:HGNC			
Symbol;Acc:HGNC:9964]	Others	1476 1828	1567 2115	2284
1912	10.46273293	10.44658203	9.408827837	
13.25487565	12.90086311	11.56905787		
ENSG00000274100	0 0	0.977798416	14.06409511	
4.569299387	5.887293117	0.325932805		
8.173562537	-4.487682348	0.028332408	1 AL627230.1	
9	67721884	67722094	- 211	
unprocessed_pseudogene	family with sequence similarity 27-like			
(FAM27L) pseudogene	-	0 0	1 14	5
6	0 0	0.219543205	3.208091872	
1.03263335	1.327439788			
ENSG00000109046	1465.870443	1276.411721	1361.095395	
1066.862072	1187.103981	998.8773988	1367.79252	
1084.28115	0.334590969	0.028343724	0.128725643	WSB1
17	27294076	27315926	+ 8602	
protein_coding	WD repeat and SOCS box containing 1 [Source:HGNC			
Symbol;Acc:HGNC:19221]	-	1267 1377	1392 1062	1299
1018	8.055117677	7.057785579	7.496218776	
5.969339711	6.580642692	5.52451778		
ENSG00000103249	519.4757924	605.299095	686.4144881	
911.1524474	802.3689724	702.5503119	603.7297918	
805.3572439	-0.414885476	0.028364761	0.128782924	CLCN7
16	1444934 1475580	- 8119	protein_coding	
chloride voltage-gated channel 7 [Source:HGNC	Symbol;Acc:HGNC:2025]			
-	449 653	702 907	878 716	
3.024395006	3.546047901	4.005318223	5.401395299	
4.712491417	4.116769172			
ENSG00000077348	1170.845216	1732.471682	1527.321126	
1879.565853	1769.232723	2083.120548	1476.879341	
1910.639708	-0.370727031	0.028392506	0.128837471	EXOSC5
19	41386374	41397479	- 1488	
protein_coding	exosome component 5 [Source:HGNC			
Symbol;Acc:HGNC:24662]	-	1012 1869	1562 1871	1936
2123	37.19394924	55.37839034	48.62734454	
60.79558934	56.69712269	66.60289376		
ENSG00000230882	39.33669697	45.4206059	43.02313031	
53.24264577	120.6295038	89.29061227	42.59347773	
87.72092062	-1.042366333	0.028393631	0.128837471	
AC005077.4	7 76071469	76074963	-	3495

processed_pseudogene (LOC285908) pseudogene		hypothetical protein LOC285908			
91	0.532018151	34 49	44 53	132	
0.733212577	1.645831419	0.618134321	0.583187158		
ENSG00000130723	3544.930574	1.215458816			
5327.278311	4467.860941	3836.650772	4508.628497		
4899.424401	-0.305667657	4903.133951	3963.403281		
9	131373636	0.028410464	0.128863287	PRRC2B	
protein_coding	proline rich coiled-coil 2B [Source:HGNC	131500197	+ 12390		
Symbol;Acc:HGNC:28121]	-	3064 4139	4611 5303	4889	
4997	13.52421815	14.72848504	17.23956375		
20.69433796	17.19520384	18.82712816			
ENSG00000104848	46.27846703	41.71280134	42.04533189		
14.06409511	20.1049173	15.69944831	43.34553342		
16.62282024	1.380446962	0.02841618	0.128863287	KCNA7	
19	49067418	49072941	- 4372		
protein_coding	potassium voltage-gated channel subfamily A member 7				
[Source:HGNC Symbol;Acc:HGNC:6226]	-		40 45	43	
14	22 16	0.500350745	0.453801909		
0.455607388	0.154827856	0.219281062	0.170838545		
ENSG00000172831	1048.207278	1457.167193	1247.670779		
1580.201543	1529.801435	1692.596771	1251.015084		
1600.866583	-0.354956598	0.028446665	0.128963277	CES2	
16	66934444	66945096	+ 5343		
protein_coding	carboxylesterase 2 [Source:HGNC Symbol;Acc:HGNC:1864]				
-	906 1572	1276 1573	1674 1725		
9.273373162	12.9718323	11.06287374	14.23458352		
13.65302474	15.07127385				
ENSG00000102302	1172.002177	1423.796952	1260.382158		
1623.398407	1520.662836	1685.728262	1285.393763		
1609.929835	-0.324212435	0.028476446	0.129060013	FGD1	
X	54445454	54496166	- 4275		
protein_coding	"FYVE, RhoGEF and PH domain containing 1 [Source:HGNC				
Symbol;Acc:HGNC:3663]"	-	1013 1536	1289 1616	1664	
1718	12.95889703	15.84123565	13.96751846		
18.2770649	16.96195086	18.76001046			
ENSG00000197121	600.4631097	474.5989841	613.0796069		
397.8129759	343.6113139	478.8331735	562.7139002		
406.7524878	0.468082016	0.028488474	0.129062145	PGAP1	
2	196833004	196927796	- 12761		
protein_coding	post-GPI attachment to proteins 1 [Source:HGNC				
Symbol;Acc:HGNC:25712]	-	519 512	627 396	376	
488	2.224218056	1.768964878	2.276068288		
1.500416024	1.283990274	1.785176451			
ENSG00000164197	133.0505927	128.8462086	157.425545		
212.9705831	229.3788292	199.1867505	139.7741154		
213.8453876	-0.613409291	0.028493801	0.129062145	RNF180	
5	64165844	64372869	+ 5434		
protein_coding	ring finger protein 180 [Source:HGNC				
Symbol;Acc:HGNC:27752]	-	115 139	161 212	251	

	203	1.15737186	1.127792297	1.372488448	
1.886329008	2.012855901	1.743903461			
ENSG00000164125	308.9087674	107.5263323	300.1841138		
53.24264577	13.70789816	0	238.8730712	22.31684798	
	3.420635742	0.028512136	0.129106939	FAM198B 4	
	158124474	158173318	-	7880	protein_coding
	family with sequence similarity 198 member B [Source:HGNC				
Symbol;Acc:HGNC:25312]	-	267	116	307	53 15
	0	1.853018506	0.649031432	1.804739874	
0.325200248	0.082951385	0			
ENSG00000144043	1752.796939	1866.879598	2072.932642		
1673.627318	1337.890861	1519.90284	1897.536393		
1510.473673	0.329524604	0.028547619	0.129195118	TEX261	
	2	70985938	70994945	-	4260
protein_coding	testis expressed 261 [Source:HGNC				
Symbol;Acc:HGNC:30712]	-	1515	2014	2120	1666 1464
	1549	19.44902105	20.8441325	23.05306727	
18.90891521	14.97580151	16.97414292			
ENSG00000184752	537.9871792	543.1933685	603.3016228		
283.2910586	390.2181677	508.2696391	561.4940568		
393.9262885	0.511290325	0.028548512	0.129195118		
NDUFA12 12	94897055	95003770	-	1815	
protein_coding	NADH:ubiquinone oxidoreductase subunit A12				
[Source:HGNC Symbol;Acc:HGNC:23987]	-		465	586	617
	282	427	518	14.0110614	14.23491718
15.74747728	7.512313362	10.25202941	13.32291221		
ENSG00000138379	10.41265508	8.342560268	0.977798416	0	
	0	6.577671255	0	5.208381804	
0.028549477	1	MSTN	2	190055697	190062729
-	2822	protein_coding	myostatin	[Source:HGNC	
Symbol;Acc:HGNC:4223]	-	9	9	1	0 0
	0	0.174413546	0.140611052	0.016415172	0
	0				
ENSG00000257027	124.951861	150.1660848	115.3802131		
251.1445555	216.5847909	156.9944831	130.166053		
208.2412765	-0.677044516	0.028572564	0.129265695		
AC010186.3	12	9658567	9662085 +	2508	sense_intronic
	novel transcript		-	108	162 118 250
	237	160	2.355000133	2.847878391	2.179500289
	4.819629933	4.117934283	2.978094581		
ENSG00000091947	1103.741439	1052.089545	1017.888151		
1178.370254	1532.543014	1326.603382	1057.906378		
1345.838884	-0.347735033	0.028615058	0.129419645		
TMEM101 17	44011188	44023946	-	3029	
protein_coding	transmembrane protein 101 [Source:HGNC				
Symbol;Acc:HGNC:28653]	-	954	1135	1041	1173 1677
	1352	17.22438856	16.52077993	15.92039768	
18.72405703	24.1263924	20.83643685			
ENSG00000139890	1.156961676	11.12341369	0	37.16939421	
	20.1049173	16.68066383	4.093458455	24.65165845	

	-2.567132778	0.028627453	0.129437405	REM2	14	
	22883165	22887686	+	2305	protein_coding	
	RRAD and GEM like GTPase 2 [Source:HGNC Symbol;Acc:HGNC:20248]					
	-	1	12	0	37	22
						17
0.023725959	0.229532546	0	0.776125604	0.415920521		
	0.344289698					
ENSG00000144741	651.3694234	748.0495707	679.5698992			
812.7037816	1005.245865	878.1878899	692.9962978			
898.7125122	-0.374793465	0.028676583	0.129613608			
SLC25A26	3	66133610	66388116	+	5850	
	protein_coding solute carrier family 25 member 26					
	[Source:HGNC Symbol;Acc:HGNC:20661]					
	809	1100	895	5.263168104	6.082072974	695
5.503403989	6.686423375	8.193989759	7.141890793			
ENSG00000049246	193.2125998	237.2994921	281.6059439			
137.6272164	165.4086378	161.9005607	237.3726786			
154.978805	0.615892815	0.02868338	0.129613608		PER3	
1	7784320	7845177	+	8099	protein_coding	period
circadian regulator 3 [Source:HGNC Symbol;Acc:HGNC:8847]						
	167	256	288	137	181	165
						1.127664179
	1.393614076	1.647265279	0.8178815	0.973880732		
	0.951039557					
ENSG00000136448	3534.517919	3509.437019	3547.452654			
4666.265841	4114.197168	4014.15269	3530.469197			
4264.8719	-0.272602558	0.028838567	0.130276351		NMT1	
17	45051610	45109016	+	6669		
protein_coding	N-myristoyltransferase 1 [Source:HGNC					
Symbol;Acc:HGNC:7857]	-	3055	3786	3628	4645	4502
	4091	25.05216191	25.0295966	25.20049183		
33.67644328	29.41733803	28.63616116				
ENSG00000221978	4027.383593	4129.567332	4461.694173			
3491.9139	2694.972778	3850.289698	4206.215033			
3345.725459	0.330372948	0.028867709	0.130369475		CCNL2	
1	1385711	1399328	-	6850	protein_coding	cyclin
L2 [Source:HGNC	Symbol;Acc:HGNC:20570]					
	3476	2949	3924	27.79125535	28.67418579	4563
30.85761478	24.53524578	18.76043045	26.74141988			
ENSG00000280424	0	1.853902282	4.888992081	32.1465031		
	18.27719755	2.943646558	2.247631454	17.78911574		
	-2.961414666	0.028890134	1	BX537318.2	22	
	46006616	46010777	+	4162	TEC	dynein
heavy chain -like pseudogene [Source:NCBI gene;Acc:730668]						
	0	2	5	32	20	3
						0
0.02118663	0.055650668	0.371748409	0.209404745			
0.033648462						
ENSG00000197712	1473.969175	1074.336372	1108.823404			
908.1387127	882.7886416	1014.576847	1219.042984			
935.1680671	0.381741327	0.028910606	0.13052464			
FAM114A1	4	38867677	38945739	+	4871	
	protein_coding family with sequence similarity 114 member A1					

[Source:HGNC Symbol;Acc:HGNC:25087]	-	1274	1159	1134
904	966	1034	14.30362156	10.49057431
10.78443459	8.973286153	8.642066316	9.909424772	
ENSG00000176919	10.41265508	20.3929251	1.955596832	0
0	1.962431039	10.92039234	0.65414368	
4.073169353	0.028917675	1	C8G	9
136946975	+	1152	protein_coding	complement C8
gamma chain [Source:HGNC Symbol;Acc:HGNC:1354]	-	9	22	
2	0	0	2	0.427252628
0.080422945	0	0	0.081044501	0.841984622
ENSG00000125648	470.883402	765.6616423	721.6152311	
752.4290883	974.1746293	977.2906574	652.7200918	
901.298125	-0.464381027	0.028935038	0.130596374	
SLC25A23	19	6436079	6465203	-
solute carrier family 25 member 23 [Source:HGNC				
Symbol;Acc:HGNC:19375]	-	407	826	738
996	4.580809411	7.494921806	7.035774612	749
7.453086045	9.560242387	9.568821985		1066
ENSG00000067560	14742.00567	11384.81391	12366.21657	
11096.57104	10959.92151	9101.755159	12831.01205	
10386.08257	0.304889694	0.028952206	0.130635294	RHOA
3	49359145	49412998	-	2582
protein_coding ras homolog family member A [Source:HGNC				
Symbol;Acc:HGNC:667]	-	12742	12282	12647
9276	269.8833396	209.723363	226.8996032	11046
206.8473767	202.4091744	167.7067481		11993
ENSG00000229647	19.66834849	25.95463194	19.55596832	
58.26553688	63.97019142	36.30497422	21.72631625	
52.84690084	-1.280576766	0.02897657	0.130703526	
MYOSLID 2	207239650	207245887	+	1204
lincRNA "myocardin-induced smooth muscle lncRNA, inducer of				
differentiation [Source:HGNC Symbol;Acc:HGNC:51821]"	-			17
28	20	58	70	37
1.025334339	0.769495288	2.329178235	2.533553916	
1.434568442				
ENSG00000196781	701.1187755	889.8730952	833.0842506	
887.04257	1326.924542	1024.389002	808.0253738	
1079.452038	-0.417515487	0.028991122	0.130703526	TLE1
9	81583683	81689305	-	4906
protein_coding transducin like enhancer of split 1 [Source:HGNC				
Symbol;Acc:HGNC:11837]	-	606	960	852
1044	6.755224598	8.627354569	8.0447862	883
8.702306518	12.89726639	9.933881856		1452
ENSG00000126858	1489.009677	1283.82733	1100.023218	
1016.633161	1083.837815	891.9249072	1290.953408	
997.4652942	0.371477466	0.028992978	0.130703526	RHOT1
17	32142454	32253374	+	6446
protein_coding ras homolog family member T1 [Source:HGNC				
Symbol;Acc:HGNC:21168]	-	1287	1385	1125
909	10.91900233	9.473128539	8.084714296	1012
				1186

7.590867797	8.017758772	6.582935773				
ENSG00000237788	2.313923351	0.926951141	4.888992081			
18.082408	10.05245865	21.58674143	2.709955524			
16.57386936	-2.613021388	0.029018345	1	AL162615.1		
20	49829125	49831085	+	1653		
processed_pseudogene	cytokine-like nuclear factor n-pac (N-PAC)					
pseudogene	-	2	1	5	18	11 22
	0.066168586	0.026672339	0.140119832	0.526503022		
	0.289986933	0.621292145				
ENSG00000182568	504.4352906	426.3975248	407.7419395			
564.5729608	721.0354433	536.7248891	446.191585			
607.4444311	-0.446371094	0.029029519	0.13079949	SATB1		
3	18345387	18445588	-	13409		
protein_coding	SATB homeobox 1 [Source:HGNC Symbol;Acc:HGNC:10541]					
CUT	436 460	417 562	789 547			
1.778217219	1.512500054	1.440595719	2.026474491			
2.564125101	1.904307033					
ENSG00000160741	918.6275705	1110.487467	1087.311839			
1421.478184	1209.036618	1327.584598	1038.808959			
1319.366467	-0.34414276	0.029031378	0.13079949	CRTC2		
1	153947669	153958625	-	3612		
protein_coding	CREB regulated transcription coactivator 2					
[Source:HGNC Symbol;Acc:HGNC:27301]		-	794	1198	1112	
1415	1323 1353	12.02174394	14.62322069			
14.26131266	18.94130576	15.96138967	17.48622615			
ENSG00000129451	10.41265508	12.05036483	0	0	0	
0	7.487673304	0	5.396699794	0.029071351		
1	KLK10 19	51012739	51020175	-		
3853	protein_coding	kallikrein related peptidase 10				
[Source:HGNC Symbol;Acc:HGNC:6358]		-	9	13	0	
0	0	0	0.127743324	0.148757305	0	
0	0	0				
ENSG00000259515	1.156961676	0.926951141	7.822387329			
42.19228532	10.05245865	9.812155195	3.302100049			
20.68563306	-2.636439049	0.029109784	0.131114106			
AL117209.1	14	102933574	102937177	+	828	
antisense	"novel transcript, antisense to CDC42BPB"					
-	1	1	8	42	11	10
0.066048715	0.053248039	0.447571172	2.452562989			
0.578923189	0.563787833					
ENSG00000187838	17.35442514	9.269511408	24.4449604	0		
0	5.887293117	17.02296565	1.962431039			
3.12273137	0.029146829	1	PLSCR3 17	7389727		
7394843	-	2834	protein_coding	phospholipid scramblase 3		
[Source:HGNC Symbol;Acc:HGNC:16495]		-	15	10	25	
0	0	6	0.289458379	0.155572959		
0.40864164	0	0	0.098831967			
ENSG00000184838	12.72657843	0	9.777984162	0	0	
0	7.501520865	0	5.396838812	0.029219719		
1	PRR16 5	120464278	120687332	+		

2274	protein_coding	proline rich 16	[Source:HGNC			
Symbol;Acc:HGNC:29654]	-	11	0	10	0	0
0	0.264543404	0	0.203709834	0	0	0
0						
ENSG00000255495	59.00504546	157.5816939	106.5800274			
174.7966106	262.2777848	147.1823279	107.7222556			
194.7522411	-0.850781467	0.029279285	0.131838714			
AC145124.1	8	12194467	12196280	+		1361
antisense		novel transcript	-	51		170
109	174	287	150	2.049305774	5.507122717	
3.70997368		6.181478166	9.189298715	5.144926439		
ENSG00000236552	2301.196773	1890.053376	1960.485824			
2268.337625	3085.190946	2455.982445	2050.578658			
2603.170339	-0.344732903	0.02930082	0.131862789			
RPL13AP5	10	96750288	96750899	+		612
processed_pseudogene		ribosomal protein L13a pseudogene 5				
[Source:HGNC Symbol;Acc:HGNC:23736]	-	1989	2039	2005		
2258	3376	2503	177.7370934	146.8925471		
151.762828	178.3913253	240.386245	190.921775			
ENSG00000106785	269.5720704	297.5513162	340.2738488			
206.9431137	175.4610965	237.4541557	302.4657452			
206.6194553	0.550953504	0.029301884	0.131862789			TRIM14
9	98069275	98119212	-	5469		
protein_coding		tripartite motif containing 14	[Source:HGNC			
Symbol;Acc:HGNC:16283]	-	233	321	348	206	192
242	2.329929126	2.587802136	2.947635487			
1.821212043	1.529860752	2.0656345				
ENSG00000116001	2000.386737	1633.28791	1553.721683			
1299.924219	1451.209485	1358.002279	1729.13211			
1369.711995	0.335564863	0.029314941	0.131864646			TIA1
2	70209444	70248660	-	6607		
protein_coding		TIA1 cytotoxic granule associated RNA binding protein	[Source:HGNC Symbol;Acc:HGNC:11802]			
[Source:HGNC Symbol;Acc:HGNC:11802]	-	1729	1762	1589		
1294	1588	1384	14.31150805	11.75805684		
11.14094541	9.469590219	10.47381236	9.778625618			
ENSG00000197694	4016.970938	3931.199788	5154.95325			
3389.446921	2927.093187	3992.565949	4367.707992			
3436.368686	0.346122016	0.029319548	0.131864646			SPTAN1
9	128552558	128633662	+	16236		
protein_coding		"spectrin alpha, non-erythrocytic 1	[Source:HGNC			
Symbol;Acc:HGNC:11273]"	-	3472	4241	5272	3374	3203
4069	11.69486968	11.51657096	15.04176553			
10.04771371	8.596793478	11.69916007				
ENSG00000102780	1483.224868	1314.416718	1555.67728			
1219.557962	986.9686676	1218.669675	1451.106289			
1141.732101	0.346016202	0.029392555	0.132154116			DGKH
13	42040036	42256578	+	19637		
protein_coding		diacylglycerol kinase eta	[Source:HGNC			
Symbol;Acc:HGNC:2854]	-	1282	1418	1591	1214	1080
1242	3.570323741	3.183721342	3.753163597			

2.989129723	2.396664335	2.952517576			
ENSG0000011243	780.9491311	1121.61088	952.3756573		
1332.070722	1121.30607	1274.59896	951.645223		
1242.658584	-0.383868983	0.029403921	0.132166345	AKAP8L	
19	15380048	15419141	- 5081		
protein_coding	A-kinase anchoring protein 8 like [Source:HGNC				
Symbol;Acc:HGNC:29857]	-	675 1210	974 1326	1227	
1299	7.265228713	10.49953664	8.879984706		
12.61814593	10.5233488	11.93454845			
ENSG00000120594	795.9896329	257.6924172	419.4755205		
377.7214115	227.5511095	281.6088541	491.0525235		
295.627125	0.730889754	0.029425733	0.13219798	PLXDC2	
10	19816239	20289856	+ 12567		
protein_coding	plexin domain containing 2 [Source:HGNC				
Symbol;Acc:HGNC:21013]	-	688 278	429 376	249	
287	2.993998207	0.97532002	1.581350473		
1.446629931	0.863428401	1.066096009			
ENSG00000221819	6.941770054	2.780853423	19.55596832		
29.13276844	26.50193645	50.04199149	9.7595306		
35.22556546	-1.850183883	0.029428254	0.13219798	GAS8-	
AS1 16	90028908	90029901	- 994		
antisense	GAS8 antisense RNA 1 [Source:HGNC				
Symbol;Acc:HGNC:1197]	-	6 3	20 29	29	
51	0.330110683	0.133066529	0.932064715		
1.410629072	1.271364883	2.395134065			
ENSG00000150593	771.6934377	714.6793296	774.4163456		
460.0968257	620.5108568	620.1282083	753.596371		
566.9119636	0.410138397	0.029464604	0.132307464	PDCD4	
10	110871795	110900006	+ 4547		
protein_coding	programmed cell death 4 [Source:HGNC				
Symbol;Acc:HGNC:8763]	-	667 771	792 458	679	
632	8.022238927	7.47589825	8.068683554		
4.870143301	6.507338789	6.488408132			
ENSG00000136867	4.627846703	4.634755704	0 0		
52.09001301	23.54917247	3.087534136			
25.21306183	-3.0372966	0.029473366	0.132307464		
SLC31A2 9	113150942	113164137	+ 2504		
protein_coding	solute carrier family 31 member 2 [Source:HGNC				
Symbol;Acc:HGNC:11017]	-	4 5	0 0	57	
24	0.08736156	0.088037893	0 0		
0.99197135	0.447427788				
ENSG00000215859	63.63289216	43.56670362	29.33395248		
10.04578222	25.58807657	12.75580175	45.51118276		
16.12988685	1.490015064	0.029478591	0.132307464		
PDZK1P1 1	147993862	148014956	- 3674		
transcribed_unprocessed_pseudogene	PDZ domain containing 1				
pseudogene 1 [Source:HGNC	Symbol;Acc:HGNC:31974]				55
47	30 10	28 13	0.818687671		
0.56401761	0.378254896	0.131601871	0.332106578		
0.165177252					

ENSG00000272068	86.77212568	101.9646255	117.3358099	
127.5814342	166.3224977	218.8110608	102.024187	
170.9049976	-0.742977902	0.029494615	0.132340529	
AL365181.2	1	156637783	156641004	-
lincRNA	novel transcript	-	75	110
127	182	223	1.273005969	1.505223906
1.725274351	1.905809122	2.461526126	3.230913737	
ENSG00000196814	345.931541	267.8888797	330.4958647	
409.8679146	438.6527412	455.284001	314.7720951	
434.6015523	-0.466600079	0.029545182	0.132512174	MVB12B
9	126326849	126507041	+	7884
protein_coding	multivesicular body subunit	12B	[Source:HGNC	
Symbol;Acc:HGNC:23368]	-	299	289	338
464	2.074050304	1.616163094	1.985969345	480
2.502158196	2.653097556	2.747371576		
ENSG00000104897	1742.384284	3149.779977	2983.262968	
3767.168333	2998.374258	3843.42119	2625.142409	
3536.32126	-0.429338444	0.029550995	0.132512174	SF3A2
19	2236504	2248679	+	3134
splicing factor	3a subunit 2	[Source:HGNC	Symbol;Acc:HGNC:10766]	
-	1506	3398	3051	3750
26.27971751	47.80335087	45.09679431	57.85401343	
45.62110876	58.34459308			
ENSG00000174780	5136.90984	4578.211685	5085.529562	
3764.154598	4414.857068	4032.795785	4933.550362	
4070.602484	0.277216413	0.029558874	0.132512174	SRP72
4	56467336	56503681	+	6426
protein_coding	signal recognition particle	72	[Source:HGNC	
Symbol;Acc:HGNC:11303]	-	4440	4939	5201
4110	37.78652564	33.88693292	37.49286157	4831
28.19318807	32.76083135	29.85706657		
ENSG00000261103	3.470885027	13.90426711	1.955596832	0
0	0	6.443582991	0	5.18408332
0.02959452	1	AC009063.3	16	83710179
83717898	-	566	antisense	"novel transcript,
antisense to CDH13"	-	3	15	2
0	0.289867508	1.168446376	0.16368769	0
0	0			
ENSG00000118046	1165.060407	2141.257135	2287.070495	
2444.138814	2318.462509	2930.890757	1864.462679	
2564.49736	-0.459287504	0.029614774	0.132699354	STK11
19	1177558	1228435	+	8639
serine/threonine kinase 11	[Source:HGNC	Symbol;Acc:HGNC:11389]	-	
1007	2310	2339	2433	2537
11.7891492	12.54206952	13.61695027	12.79721867	
16.14052974				
ENSG00000225855	173.5442514	99.18377207	130.0471893	
97.44408754	45.69299387	73.59116396	134.2584043	
72.24274846	0.893871985	0.029617989	0.132699354	RUSC1-
AS1	1	155316863	155324176	-
				3516

antisense	RUSC1 antisense RNA 1 [Source:HGNC					
Symbol;Acc:HGNC:26680]	-	150	107	133	97	50
75	2.333120155	1.341741551		1.752286965		
1.333902493	0.619697488	0.995768613				
ENSG00000204438	418.8201266	457.9138636		447.8316746		
557.5409132	538.2634678	676.0574929		441.5218883		
590.6206246	-0.419159109	0.029665599		0.132873723		GPANK1
6	31661229	31666283		-	3528	
protein_coding	G-patch domain and ankyrin repeats 1 [Source:HGNC					
Symbol;Acc:HGNC:13920]	-	362	494	458	555	589
689	5.611444951	6.17351248		6.013666744		
7.606162913	7.275206352	9.116679374				
ENSG00000180353	196.6834849	309.601681		293.3395248		
355.6206906	340.8697343	487.6641132		266.5415636		
394.7181793	-0.56427857	0.029696268		0.13297213		HCLS1
3	121631399	121660927		-	5093	
protein_coding	hematopoietic cell-specific Lyn substrate 1					
[Source:HGNC	Symbol;Acc:HGNC:4844]	-		170	334	300
354	373	497	1.825450067	2.891390492		
2.728663832	3.360708174	3.19149195		4.555423401		
ENSG00000272168	76.3594706	37.07804563		47.91212239		
12.05493866	29.24351608	21.58674143		53.78321287		
20.96173206	1.353478201	0.029717412		0.133006593		CASC15
6	21664772	22368328		+	13289	
lincRNA	cancer susceptibility 15 [Source:HGNC					
Symbol;Acc:HGNC:28245]	-	66	40	49	12	32
0.27161037	0.132709388	0.170807224		0.043660646		
0.104934011	0.077281655					
ENSG00000079931	144.6202095	129.7731597		117.3358099		
84.38457065	48.4345735	87.32818123		130.576393		
73.3824418	0.832295392	0.029722292		0.133006593		MOXD1
6	132296055	132401545		-	5293	
protein_coding	monooxygenase DBH like 1 [Source:HGNC					
Symbol;Acc:HGNC:21063]	-	125	140	120	84	53
89	1.291525043	1.16616526		1.050223684		
0.767323693	0.436347582	0.78493582				
ENSG00000123500	477.8251721	511.6770297		350.051833		
261.1903377	362.8023713	312.0265352		446.5180116		
312.0064148	0.516453807	0.029730067		0.133006593		
COL10A1	6	116118923		116158747		-
						3816
protein_coding	collagen type X alpha 1 chain [Source:HGNC					
Symbol;Acc:HGNC:2185]	-	413	552	358	260	397
318	5.91883725	6.377708562		4.345873857		
3.294323152	4.533574308	3.890136046				
ENSG00000285517	224.4505651	195.5866907		121.2470036		
174.7966106	346.3528935	374.8243284		180.4280865		
298.6579442	-0.728752153	0.029765889		0.133091149		
LINC00941	12	30795458		30879268		+
						18914
lincRNA	long intergenic non-protein coding RNA 941					
[Source:NCBI gene;Acc:100287314]	-			194	211	124

174	379	382	0.56093567	0.4918504	
0.303697178	0.444802357		0.873201399	0.942813981	
ENSG00000144362	42.807582		23.17377852	17.60037149	
110.5036044	42.03755436		52.00442253	27.86057734	
68.18186044	-1.296724913		0.029766379	0.133091149	
PHOSPHO2	2	169694454	169701708	+	1488
protein_coding "phosphatase, orphan 2 [Source:HGNC					
Symbol;Acc:HGNC:28316]" -					
			37	25	18 110
53	1.359857828		0.740748934	0.560366326	46
3.574299747	1.347142378		1.662719439		
ENSG00000244462	2444.660021		2440.662354	2741.746759	
3249.810548	3108.951303		2916.172524	2542.356378	
3091.644792	-0.282123133		0.029803729	0.133219184	RBM12
20	35648925		35664956	-	6702
protein_coding RNA binding motif protein 12 [Source:HGNC					
Symbol;Acc:HGNC:9898]" -					
			2113	2633	2804 3235
2972	17.24208518		17.32129641	19.38099375	3402
23.33839995	22.12017118		20.70095672		
ENSG00000151445	831.8554448		766.5885935	705.9704565	
1022.66063	1039.97254		890.9436917	768.1381649	
984.5256207	-0.358606002		0.02982705	0.133284452	
VIPAS39 14	77426675		77457952	-	3695
protein_coding "VPS33B interacting protein, apical-basolateral					
polarity regulator, spe-39 homolog [Source:HGNC					
Symbol;Acc:HGNC:20347]" -					
			719	827	722 1018
908	10.64165464		9.867906477	9.051597017	1138
13.32093017	13.42104761		11.47142689		
ENSG00000178695	2288.470195		2066.174093	1947.774445	
2538.569167	2977.355481		2338.236583	2100.806244	
2618.053744	-0.317918912		0.029841703	0.133310962	KCTD12
13	76880166		76886390	-	6225
protein_coding potassium channel tetramerization domain containing 12					
[Source:HGNC Symbol;Acc:HGNC:14678]" -					
				1978	2229 1992
2527	3258	2383	17.37727381	15.787184	
14.82355722	19.62759566		22.8071134	17.87025388	
ENSG00000124570	2534.903031		2618.636973	2899.172304	
1975.000784	1931.899781		2517.799023	2684.237436	
2141.566529	0.326007907		0.029863936	0.133339374	
SERPINB6	6	2948159	2972165	-	13201 protein_coding
serpin family B member 6 [Source:HGNC Symbol;Acc:HGNC:8950]" -					
			2191	2825	2965 1966
9.076747604	9.43507983		10.40447863	7.20075275	
6.978414304	9.07393903				
ENSG00000269378	525.2606008		474.5989841	611.1240101	
402.835867	365.543951		421.9226734	536.9945317	
396.7674971	0.436783019		0.029865508	0.133339374	
AC022149.1	19	14621634	14622242	-	609
processed_pseudogene integrin beta 1 pseudogene 1 -					
			454	512	625 401 400 430
					40.76930171
					37.06693072 47.54065714 31.83671843 28.62208693

32.96075862						
ENSG00000255135	68.26073887		64.88657986		83.11286537	
24.10987733	51.17615314		5.887293117		72.08672803	
27.05777453	1.410251584		0.029882058		0.133358921	
AP002360.1	11	76441338		76444656	-	754
	lincRNA	novel transcript		-	59	70
	24	56	6	4.27932606	4.093178197	85
5.222158338	1.539008833		3.236497522		0.371471877	
ENSG00000120800	2141.536062		2074.516653		2243.069567	
1932.808499	1587.374607		1709.277435		2153.040761	
1743.153514	0.304827515		0.029887333		0.133358921	UTP20
	12	101280109		101386616	+	10024
protein_coding	"UTP20, small subunit processome component					
	[Source:HGNC Symbol;Acc:HGNC:17897]"					
	1924	1737	1742	10.09857449	9.843577891	2294
10.60119471	9.280368605		7.551224084		8.112470462	
ENSG00000171940	1851.138681		1362.618177		1994.708769	
1414.446137	1496.902479		940.0044677		1736.155209	
1283.784361	0.43516044		0.030004376		0.133842107	ZNF217
	20	53567065		53609907	-	6181
protein_coding	zinc finger protein 217 [Source:HGNC					
	Symbol;Acc:HGNC:13009] zf-C2H2					
	958	14.15650191		10.4855822	15.2888169	1638
11.01400141	11.5481855		7.235237662			
ENSG00000279926	16.19746346		17.61207168		4.888992081	
49.22433288	29.24351608		39.24862078		12.89950907	
39.23882325	-1.606492859		0.030022524		0.133874911	
AL138831.3	6	3982673	3984130	+	1458	TEC
	-	14	19	5	49	32
					40	
0.525128059	0.574552918		0.158860138		1.624949141	
0.956425292	1.280703225					
ENSG00000188167	64.78985384		123.2845017		138.8473751	
302.3780448	101.4384464		208.0176901		108.9739102	
203.9447271	-0.900576113		0.030029245		0.133874911	TMPPE
	3	33090421		33096801	-	3966
protein_coding	transmembrane protein with metallophosphoesterase					
	domain [Source:HGNC Symbol;Acc:HGNC:33865]					
	142	301	111	212	0.772200414	1.478539356
	1.658586363		3.669568526		1.219632157	2.495336889
ENSG00000198815	2995.373778		2829.054882		2526.631107	
3735.021829	3579.58914		3007.425567		2783.686589	
3440.678845	-0.305857072		0.030071494		0.133994643	FOXJ3
	1	42176539		42335877	-	6893
protein_coding	forkhead box J3 [Source:HGNC Symbol;Acc:HGNC:29178]					
	Fork	2589	3052	2584	3718	3917
						3065
20.54085348	19.52136621		17.36547578		26.07968391	
24.7630361	20.75717449					
ENSG00000166278	30.08100357		29.66243651		38.13413823	
8.036625776	0	14.71823279		32.62585944	7.584952856	
	2.111054386		0.030074766		0.133994643	C2
						6

31897785	31945672	+	5536	protein_coding
complement C2 [Source:HGNC Symbol;Acc:HGNC:1248]				-
26	32	39	8	0
0.254851888	0.326340505	0.069870704	0	0.256845511
0.126485637				
ENSG00000104671	596.9922247	371.7074075	470.3210382	
306.3963577	396.6151868	298.2895179	479.6735568	
333.7670208	0.52136833	0.030082398	0.133994643	DCTN6
8	30156297	30183640	+	1984
protein_coding	dynactin subunit 6 [Source:HGNC Symbol;Acc:HGNC:16964]			
-	516	401	481	305
14.22337782	8.911209682	11.23067512	7.432918793	434
9.532496609	7.152830795			304
ENSG00000212766	5.784808379	16.68512054	0	0
0	7.489976305	0	5.399730957	0.030086473
1	EWSAT1	15	69072926	69095820
3576	lincRNA Ewing sarcoma associated transcript 1			
[Source:HGNC Symbol;Acc:HGNC:26596]	-	5	18	0
0	0	0	0.076465795	0.221926392
0	0	0		0
ENSG00000198934	157.3467879	210.417909	154.4921498	
287.3093715	266.8470842	230.5856471	174.0856155	
261.5807009	-0.585997214	0.030106448	0.134028486	MAGEE1
X	76427724	76431353	+	3630
protein_coding	MAGE family member E1 [Source:HGNC			
Symbol;Acc:HGNC:24934]	-	136	227	158
235	2.048929409	2.757104265	2.016289636	286
3.809435499	3.505377738	3.02208916		292
ENSG00000238251	0	0	10.04578222	0
12.75580175	0	7.600527991	-5.34453452	0.030106629
1	AL133477.1	9	96407284	96407797
+	514	processed_pseudogene		NSA2 ribosome
biogenesis homolog (S. cerevisiae) (NSA2) pseudogene	-			0
0	0	10	0	13
0.940671741	0	1.180663858	0	0
ENSG00000077150	1244.890763	1917.86191	1562.521869	
1728.87912	2524.080981	2022.285186	1575.091514	
2091.748429	-0.408859266	0.030107531	0.134028486	NFKB2
10	102394110	102402529	+	4484
protein_coding	nuclear factor kappa B subunit 2 [Source:HGNC			
Symbol;Acc:HGNC:7795]	RHD	1076	2069	1598
2061	13.12324933	20.34364856	16.50872856	1721
18.55737239	26.84211101	21.45647741		2762
ENSG00000104517	3414.193905	3066.354374	3652.077084	
3038.849122	2290.132853	2784.689644	3377.541788	
2704.557206	0.320669851	0.030116347	0.134028703	UBR5
8	102253012	102412841	-	13085
protein_coding	ubiquitin protein ligase E3 component n-recognin 5			
[Source:HGNC Symbol;Acc:HGNC:16806]	-	2951	3308	3735
3025	2506	2838	12.33360954	11.14617178

13.22267535	11.17771079	8.345760883	10.12475913		
ENSG00000187189	883.9187202	1073.409421	824.2840648		
1321.020362	1159.688184	1105.82989	927.2040687		
1195.512812	-0.366172072	0.0301274	0.134038874	TSPYL4	
6	116249961	116254140	-	4180	
protein_coding	TSPY like 4 [Source:HGNC Symbol;Acc:HGNC:21559] -				
764	1158	843	1315	1269	1127
	12.21423399	9.342298697	15.21075207	13.22951546	
	12.58617222				
ENSG00000114993	301.9669974	474.5989841	425.342311		
504.2982675	547.4020666	630.921579	400.6360975		
560.873971	-0.483640777	0.030143868	0.134073119	RTKN	
2	74425836	74442422	-	5190	
protein_coding	rhotekin [Source:HGNC Symbol;Acc:HGNC:10466] -				
261	512	435	502	599	643
	4.349472217	3.88261524	4.676679152	5.029421828	
	5.783485498				
ENSG00000230993	16.19746346	0.926951141	2.933395248	0	
0	0	6.685936616	0	5.227426157	
0.03014685	1	RPL12P15	2	121658475	
121658973	-	499	processed_pseudogene	ribosomal	
protein	L12 pseudogene 15 [Source:HGNC Symbol;Acc:HGNC:36619] -				
14	1	3	0	0	1.534342104
	0.088355464	0.278498695	0	0	
ENSG00000086666	1242.57684	967.736991	886.8631635		
729.3237892	875.4777626	745.7237948	1032.392331		
783.5084488	0.396963217	0.030194664	0.134203534	ZFAND6	
15	80059568	80138393	+	5153	
protein_coding	zinc finger AN1-type containing 6 [Source:HGNC				
Symbol;Acc:HGNC:30164]	-	1074	1044	907	726
760	11.39826767	8.932526518	8.153603725		958
6.812047925	8.101472541	6.884929311			
ENSG00000106477	1001.928811	1030.769669	944.55327		
873.9830532	762.1591378	676.0574929	992.4172499		
770.7332279	0.364839119	0.030202197	0.134203534	CEP41	
7	130393771	130442433	-	12566	
protein_coding	centrosomal protein 41 [Source:HGNC				
Symbol;Acc:HGNC:12370]	-	866	1112	966	870
689	3.768908113	3.901590542	3.561086532		834
3.347521798	2.892195147	2.55957702			
ENSG00000139266	400.3087398	474.5989841	477.1656271		
489.2295941	717.3800038	644.6585963	450.691117		
617.0893981	-0.45297816	0.030205165	0.134203534	9-Mar	
12	57755098	57760407	+	4005	
protein_coding	membrane associated ring-CH-type finger 9 [Source:HGNC				
Symbol;Acc:HGNC:25139]	-	346	512	488	487
657	4.724635307	5.636394709	5.644425658		785
5.879327563	8.541334575	7.65788579			
ENSG00000187172	92.55693406	226.1760784	131.0249878		
48.21975466	94.12756737	94.19668987	149.9193334		

78.84800397	0.928369724	0.030208305	0.134203534	BAGE2
21	10413477	10516431	+ 4080	
transcribed_unprocessed_pseudogene		BAGE family member 2		
[Source:HGNC Symbol;Acc:HGNC:15723]		-	80 244	134
48	103 96	1.072320322	2.636717619	
1.521412889	0.568829735	1.100108852	1.098391354	
ENSG00000164292	2993.059855	2414.707722	2601.921585	
2243.22317	2240.784419	1992.84872	2669.896387	
2158.952103	0.306093997	0.030229924	0.134260561	
RHOBTB3 5	95713522	95824383	+ 8833	
protein_coding	Rho related BTB domain containing 3 [Source:HGNC			
Symbol;Acc:HGNC:18757]	-	2587 2605	2661 2233	2452
2031	16.017064	13.00269738	13.95529752	
12.22310969	12.09680927	10.73365739		
ENSG00000106733	82.14427898	97.32986979	68.44588913	
130.5951689	141.648281	145.2198969	82.64001263	
139.1544489	-0.751215451	0.030263719	0.134323173	NMRK1
9	75060573	75088217	- 3865	
protein_coding	nicotinamide riboside kinase 1 [Source:HGNC			
Symbol;Acc:HGNC:26057]	-	71 105	70 130	155
148	1.004624033	1.197770903	0.838978821	
1.626279062	1.747595017	1.787550225		
ENSG00000167770	2280.371463	2792.903787	2814.103842	
3499.950526	3016.651455	3231.142706	2629.126364	
3249.248229	-0.305110884	0.030267388	0.134323173	OTUB1
11	63985853	64001811	+ 5336	
protein_coding	"OTU deubiquitinase, ubiquitin aldehyde binding 1			
[Source:HGNC Symbol;Acc:HGNC:23077]"	-		1971 3013	2878
3484	3301 3293	20.200658	24.89529453	
24.98488901	31.56919749	26.95803924	28.80858621	
ENSG00000233834	3.470885027	10.19646255	4.888992081	0
0	0	6.185446552	0	5.124553797
0.030269857	1	AC005083.1	7	20217577
20221700	+	901	processed_transcript	
uncharacterized	LOC100506098 [Source:NCBI gene;Acc:100506098]			-
3	11	5	0 0	0 0.18209213
0.538272078	0.257067793	0	0	0
ENSG00000144596	3.470885027	10.19646255	4.888992081	0
0	0	6.185446552	0	5.124553797
0.030269857	1	GRIP2 3	14489111	14556075
-	11885	protein_coding	glutamate receptor interacting	
protein 2 [Source:HGNC Symbol;Acc:HGNC:23841]	-		3	11
5	0	0	0.013804376	0.040806322
0.019488269	0	0	0	
ENSG00000272734	45.12150535	64.88657986	65.51249388	
6.027469332	17.36333767	40.2298363	58.5068597	
21.2068811	1.464992255	0.03027353	0.134323173	ADIRF-
AS1 10	86965345	86971311	- 5748	
processed_transcript	ADIRF antisense RNA 1 [Source:HGNC			
Symbol;Acc:HGNC:45127]	-	39 70	67 6	19

41	0.37105865	0.536926994	0.539958645	
0.050470279	0.144044088	0.332976154		
ENSG00000085832	1708.832395	1357.983421	1547.854893	
1011.61027	1428.362988	1111.717184	1538.22357	
1183.896814	0.377029653	0.030279169	0.134323173	EPS15
1	51354263	51519328	-	7440
protein_coding	epidermal growth factor receptor pathway substrate 15			
[Source:HGNC Symbol;Acc:HGNC:3419]		-	1477	1465 1583
1007	1563	1133	10.85681087	8.681577512
9.856221052	6.544217901	9.154711029	7.108909904	
ENSG00000272913	180.4860214	192.8058373	135.9139798	
284.2956368	239.4312879	242.3602333	169.7352795	
255.362386	-0.589232318	0.030302412	0.134384889	
AC009237.14	2	95525109	95526702	- 1594
lincRNA	novel transcript			
283	262	247	5.35218349	5.753193431 139
4.039512338	8.584190264	7.162614408	7.233603037	
ENSG00000105058	2610.10554	3067.281325	2656.678297	
3078.027672	3469.925955	3702.126155	2778.021721	
3416.693261	-0.298374348	0.030310812	0.134384889	FAM32A
19	16185380	16192046	+	1921
protein_coding	family with sequence similarity 32 member A			
[Source:HGNC Symbol;Acc:HGNC:24563]		-	2256	3309 2717
3064	3797	3773	64.22534461	75.94572988
65.51861818	77.1192172	86.13344746	91.68651725	
ENSG00000111052	41.65062033	5.561706845	33.24514615	
2.009156444	11.88017841	1.962431039	26.81915777	
5.283921963	2.330445549	0.030327178	0.134384889	LIN7A
12	80792520	80937925	-	6795
protein_coding	"lin-7 homolog A, crumbs cell polarity complex component [Source:HGNC Symbol;Acc:HGNC:17787]"			
34	2	13	2	0.289739531 0.038931017 6
0.231788514	0.014231208	0.083370516	0.013739995	
ENSG00000197136	2352.103087	3212.812654	3713.678385	
4638.137651	3511.049649	3909.16263	3092.864708	
4019.449977	-0.37767097	0.030333667	0.134384889	PCNX3
11	65615773	65637439	+	7972
protein_coding	pecanex 3 [Source:HGNC Symbol;Acc:HGNC:18760]			-
2033	3466	3798	4617	3842 3984 13.9464862
19.16881325	22.06937967	28.00230625	21.00142038	
23.32910488				
ENSG00000061455	0	0	0	0 28.45525006
0	9.485083355	-5.664906732	0.030338556	1
PRDM6	5	123089121	123194266	+ 9350
protein_coding	PR/SET domain 6 [Source:HGNC			
Symbol;Acc:HGNC:9350]	zf-C2H2	0	0	0 0 0
29	0	0	0	0 0.144787951
ENSG00000270956	2.313923351	1.853902282	3.911193665	
25.11445555	15.53561792	7.849724156	2.693006433	
16.16659921	-2.583993727	0.030345105	1	AC009948.4

2	178541125	178541799	+	675	
antisense	"novel transcript, antisense to TTN"			-	2
2	4	25	17	8	0.162039515
0.13063519	0.274510319	1.790760277		1.097498022	
0.553263793					
ENSG00000182578	284.6125722	337.4102153		365.6966076	
261.1903377	188.2551347	231.5668626		329.2397984	
227.0041117	0.537972083	0.030349329		0.134384889	CSF1R
5	150053291	150113372	-	5151	
protein_coding	colony stimulating factor 1 receptor [Source:HGNC				
Symbol;Acc:HGNC:2433]	-	246	364	374	260
236	2.611790092	3.115615041		3.363430887	206
2.440523616	1.742746697	2.138781845			
ENSG00000100749	1069.032588	1008.522841		924.9973017	
737.360415	841.6649471	778.1039069		1000.85091	
785.7097563	0.348651222	0.03035122		0.134384889	VRK1
14	96797304	96931722	+	2744	
protein_coding	vaccinia related kinase 1 [Source:HGNC				
Symbol;Acc:HGNC:12718]	-	924	1088	946	734
793	18.41546023	17.48150208		15.97016801	921
12.9334137	14.62628801	13.49071961			
ENSG00000142657	2993.059855	3262.868016		3653.054883	
2649.072771	2781.789467	2694.417816		3302.994251	
2708.426685	0.286473255	0.030354616		0.134384889	PGD
1	10398592	10420144	+	2966	
protein_coding	phosphogluconate dehydrogenase [Source:HGNC				
Symbol;Acc:HGNC:8891]	-	2587	3520	3736	2637
2746	47.70017746	52.32454672		58.34963943	3044
42.9873031	44.72312059	43.21907046			
ENSG00000237070	0	8.342560268		13.68917783	0
0	7.343912698	0		5.372895919	0.03036352
1	AC005550.2	7		15667947	15681980
+	3743	antisense		uncharacterized	LOC105375166
[Source:NCBI gene;Acc:105375166]			-	0	9
0	0	0		0.106012394	0.173264929
0	0	0			
ENSG00000116030	2018.898124	2077.297507		1899.862323	
1673.627318	1632.153741	1609.193452		1998.685984	
1638.324837	0.286851697	0.030426715		0.134665083	SUM01
2	202206180	202238608	-	2164	
protein_coding	small ubiquitin-like modifier 1 [Source:HGNC				
Symbol;Acc:HGNC:12502]	-	1745	2241	1943	1666
1640	44.09942101	45.65817602		41.59278489	1786
37.22365009	35.96522618	35.37794704			
ENSG00000198952	3704.591286	4314.957561		4972.104946	
5901.897054	5060.042141	5152.362693		4330.551264	
5371.433963	-0.31052746	0.03047537		0.134841384	SMG5
1	156249224	156282825	-	5304	
protein_coding	"SMG5, nonsense mediated mRNA decay factor				
[Source:HGNC Symbol;Acc:HGNC:24644]"	-			3202	4655
					5085

5875	5537	5251	33.015093	38.69457918	
44.41093306	53.5556842		45.49143178	46.21516828	
ENSG00000204362	1.156961676		10.19646255	7.822387329	0
0	0	6.391937185	0	5.173285279	
0.030516367	1	AL590644.1	1	17189783	
17197617	+	4676	lincRNA novel transcript		-
1	11	8	0	0	0.011695538
0.103717524		0.079253407	0	0	0
ENSG00000146021	23.13923351		0.926951141	0	0
0	8.022061552		0	5.49065407	0.030536386
1	KLHL3	5	137617500	137736090	-
11854	protein_coding		kelch like family member 3		
[Source:HGNC Symbol;Acc:HGNC:6354]			-	20	1
0	0	0	0.092269844	0.003719367	0
0	0	0			
ENSG00000283839	2.313923351		11.12341369	19.55596832	
41.1877071	34.72667534		35.3237587	10.99776845	
37.07938038	-1.741144333		0.03059258	0.135320824	
AC096667.1	2	184593577	184599008	-	3465
	antisense		proline-rich protein 18-like		[Source:NCBI
gene;Acc:105373780]	-	2	12	20	41
36	0.031566139		0.152690482	0.267380181	38
0.572113024	0.477902118		0.485003975		
ENSG00000162408	1600.077998		1438.628171	1460.830834	
2121.669205	1777.457462		1717.127159	1499.845667	
1872.084609	-0.320008211		0.030644321	0.135489947	NOL9
1	6521347	6554535	-	7293	protein_coding
nucleolar protein 9					[Source:HGNC Symbol;Acc:HGNC:26265]
1552	1494	2112	1945	1750	-
9.38251919	9.489576686		14.00196271	11.62176233	1383
11.20154353					
ENSG00000183496	224.4505651		185.3902282	266.9389676	
162.741672	159.9254785		105.9712761	225.5932536	
142.8794755	0.658418099		0.030655094	0.135489947	MEX3B
15	82041778		82046141	-	4364
protein_coding			mex-3 RNA binding family member B		[Source:HGNC
Symbol;Acc:HGNC:25297]	-	194	200	273	162
108	2.431149695		2.02059471	2.897879756	175
1.794863761	1.747478755		1.155274133		
ENSG00000285589	75.20250892		56.54401959	69.42368755	
35.16023777	16.44947779		38.26740526	67.05673869	
29.95904027	1.163885364		0.030657403	0.135489947	
AC010422.8	19	12668071	12681834	-	5025
	protein_coding		novel transcript		-
71	35	18	39	0.707411317	0.535214323
0.654522738		0.336769843		0.156097173	0.362305208
ENSG00000179841	97.18478076		57.47097073	100.7132369	
31.14192488	31.98509571		58.87293117	85.12299612	
40.66665059	1.064890225		0.030697285	0.135626992	AKAP5
14	64465499		64474503	+	7512

protein_coding	A-kinase anchoring protein 5 [Source:HGNC					
Symbol;Acc:HGNC:375]	-	84	62	103	31	35
60	0.611530919	0.363889956	0.635161406			
0.1995296	0.203035072	0.37285649				
ENSG00000238039	1.156961676	0	0	0	7.310879019	
21.58674143	0.385653892	9.632540149	-4.726090024			
0.030734451	1	AC244197.2	X	149511509		
149526264	-	655	lincRNA novel transcript			
-	1	0	0	8	22	
0.083493643	0	0	0.532239723	1.567932697		
ENSG00000269343	478.9821337	449.5713033	419.4755205			
653.9804225	529.124869	610.3160531	449.3429859			
597.8071149	-0.412025901	0.030772464	0.135894125			
ZNF587B 19	57819741	57846238	+	4380		
protein_coding	zinc finger protein 587B [Source:HGNC					
Symbol;Acc:HGNC:37142]	zf-C2H2	414	485	429	651	579
622	5.169171526	4.88204284	4.537176118			
7.186345525	5.760538068	6.629218139				
ENSG00000175137	912.8427621	1276.411721	1250.604174			
1610.33889	1299.508746	1567.001185	1146.619552			
1492.28294	-0.37918897	0.030778097	0.135894125			
SH3BP5L 1	248810446	248826633	-	6442		
protein_coding	SH3 binding domain protein 5 like [Source:HGNC					
Symbol;Acc:HGNC:29360]	-	789	1377	1279	1603	1422
1597	6.698090258	9.424258235	9.197129038			
12.03134051	9.619167199	11.57258106				
ENSG00000137713	1954.10827	1771.40363	1634.878952			
1364.217226	1543.509333	1404.119408	1786.796951			
1437.281989	0.313591905	0.030784415	0.135894125			
PPP2R1B 11	111726908	111766427	-	6720		
protein_coding	protein phosphatase 2 scaffold subunit Abeta					
[Source:HGNC Symbol;Acc:HGNC:9303]	-		1689	1911	1672	
1358	1689	1431	13.74532742	12.53791646		
11.52575692	9.770835764	10.95264406	9.940686933			
ENSG00000087266	1498.26537	1217.086848	1635.85675			
1150.242064	715.552284	1304.035425	1450.402989			
1056.609925	0.457200222	0.030815761	0.135993229	SH3BP2		
4	2793023	2841098	+	13968	protein_coding	SH3
domain binding	protein 2 [Source:HGNC Symbol;Acc:HGNC:10825]					
1295	1313	1673	1145	783	1329	5.070260286
4.14442665	5.548354102	3.963441722	2.44279			
4.441572857						
ENSG00000185761	76.3594706	99.18377207	85.06846221			
150.6867333	102.3523063	201.1491815	86.87056829			
151.3960737	-0.799099943	0.030828299	0.136009294			
ADAMTSL5	19	1505018	1513604	-	3625	protein_coding
ADAMTS like 5	[Source:HGNC Symbol;Acc:HGNC:27912]					
66	107	87	150	112	205	0.995704884
1.301396771	1.111766792	2.000711482	1.346382969			
2.639926807						

ENSG00000164403	246.4328369	532.0699548	611.1240101		
315.4375617	233.0342687	335.5757077	463.208934		
294.6825127	0.654326519	0.030842698	0.13603356		
SHROOM1 5	132822141	132830898	-	4420	
protein_coding	shroom family member 1 [Source:HGNC				
Symbol;Acc:HGNC:24084]	-	213	574	625	314
342	2.635433407	5.725633972	6.550285112		255
3.434856478	2.51406504	3.612017723			
ENSG00000142327	618.9744965	975.1526002	981.7096098		
1004.578222	1211.778197	1262.824374	858.6122355		
1159.726931	-0.432705301	0.030869291	0.136111579		
RNPEPL1 2	240565804	240581372	+	7867	
protein_coding	arginyl aminopeptidase like 1 [Source:HGNC				
Symbol;Acc:HGNC:10079]	-	535	1052	1004	1000
1287	3.719112748	5.8957702	5.911899171		1326
6.145993071	7.345019813	7.636870611			
ENSG00000197111	3942.925391	3383.371664	3847.636768		
3073.004781	3002.029697	3162.457619	3724.644608		
3079.164033	0.274417679	0.030885977	0.136145886		PCBP2
12	53452102	53481162	+	7926	
protein_coding	poly(rC) binding protein 2 [Source:HGNC				
Symbol;Acc:HGNC:8648]	-	3408	3650	3935	3059
3223	23.51474269	20.30358624	22.99816177		3285
18.66064391	18.06092144	18.98245038			
ENSG00000101367	4441.575873	3736.540049	4192.799609		
3586.344253	3529.326847	2949.533852	4123.63851		
3355.068317	0.297397321	0.030945488	0.136333051		MAPRE1
20	32819893	32850405	+	2623	
protein_coding	microtubule associated protein RP/EB family member 1				
[Source:HGNC Symbol;Acc:HGNC:6890]	-		3839	4031	4288
3570	3862	3006	80.04137383	67.75611018	
75.72842804	65.80685595	64.16121458	53.49789838		
ENSG00000171723	502.1213673	535.7777594	487.9214097		
427.9503226	346.3528935	357.1624491	508.6068454		
377.1552217	0.431936381	0.030951544	0.136333051		GPHN
14	66507407	67181803	+	6007	
protein_coding	gephyrin [Source:HGNC Symbol;Acc:HGNC:15465]				
434	578	499	426	379	364
4.242327229	3.848091317	3.428887084	2.749414228		
2.82871887					
ENSG00000111737	1339.76162	1856.683135	1699.413647		
1968.973315	2171.331069	2051.721651	1631.952801		
2064.008678	-0.338264693	0.030955192	0.136333051		RAB35
12	120095095	120117502	-	4022	
protein_coding	"RAB35, member RAS oncogene family [Source:HGNC				
Symbol;Acc:HGNC:9774]"	-	1158	2003	1738	1960
2091	15.7456722	21.95699187	20.01751496		2376
23.56216656	25.74322591	24.26934204			
ENSG00000250131	2.313923351	6.488657986	9.777984162		0
0	0	6.193521833	0	5.12646323	

0.031015864	1	AC078881.1	4	177444979		
177677126	+	2161	antisense	novel transcript		
-	2	7	10	0	0	
0.050613916	0.14281612	0.214361945		0	0	0
ENSG0000013364	2752.411827	3243.402042		2628.322143		
3044.876591	3578.67528	4276.137234		2874.712004		
3633.229702	-0.337722548	0.031061017		0.136759724		MVP
16	29820394	29848039		+	6141	
protein_coding	major vault protein [Source:HGNC Symbol;Acc:HGNC:7531]					
-	2379	3499	2688	3031	3916	4358
21.18605315	25.12110872	20.27648276		23.86426459		
27.7883131	33.12791967					
ENSG00000284631	2.313923351	2.780853423		1.955596832		
14.06409511	11.88017841	17.66187935		2.350124535		
14.53538429	-2.626299871	0.031071846		1	SCYGR4	2
227616998	227618655	+		1658	protein_coding	
small cysteine and glycine repeat containing 4 [Source:HGNC						
Symbol;Acc:HGNC:34223]	-	2	3	2	14	13
18	0.065969043	0.079775712		0.05587891		
0.408267422	0.341678321	0.506796976				
ENSG00000122641	652.5263851	553.3898311		559.300694		
329.5016568	509.0199517	439.5845527		588.4056367		
426.0353871	0.46466793	0.031080205		0.136804808		INHBA
7	41667168	41705834		-	8302	
protein_coding	inhibin subunit beta A [Source:HGNC					
Symbol;Acc:HGNC:6066]	-	564	597	572	328	557
448	3.715276048	3.170483958		3.191653641		
1.910259337	2.92368826	2.519076293				
ENSG00000155093	536.8302175	601.5912904		616.0130022		
444.0235741	406.6676454	473.9270959		584.8115034		
441.5394385	0.406180758	0.031138167		0.137020485		PTPRN2
7	157539056	158587788		-	4833	
protein_coding	"protein tyrosine phosphatase, receptor type N2					
[Source:HGNC Symbol;Acc:HGNC:9677]"	-			464	649	630
442	445	483	5.250442397	5.920547362		
6.038460227	4.421877333	4.012377751		4.665265575		
ENSG00000119314	2501.351143	2017.972634		2101.288796		
1597.279373	2064.409463	1524.808917		2206.870858		
1728.832584	0.351667709	0.03116308		0.13709065		PTBP3
9	112217716	112333667		-	8239	
protein_coding	polypyrimidine tract binding protein 3 [Source:HGNC					
Symbol;Acc:HGNC:10253]	-	2162	2177	2149	1590	2259
1554	14.35079298	11.6497843		12.08271046		
9.330906507	11.94814064	8.804861875				
ENSG00000220091	0	0	0.977798416	3.013734666		
9.138598774	11.77458623	0.325932805				
7.975639891	-4.454322068	0.031183155		1	LAP3P1	6
82924829	82925122	-		294		
processed_pseudogene	leucine aminopeptidase 3 pseudogene 1					
[Source:HGNC Symbol;Acc:HGNC:42364]	-			0	0	1

0.49337273	3	10	12	0	0	0.157563321	
ENSG00000129493	451.2150535	1.482215216	1.905372757	321.6520459	316.8066868		
275.2544328	249.4837465			231.5668626	363.2245954		
252.1016807	0.525446192			0.031192151	0.137179059		
HEATR5A	14	31291791	31420582	-	10243		
protein_coding	HEAT repeat containing 5A [Source:HGNC						
Symbol;Acc:HGNC:20276]	-	390	347	324	274	273	
236	2.08224653	1.493606724	1.465278891				
1.29337543	1.161432761	1.075550648					
ENSG00000242125	1184.728756	1251.38404	1358.162				
1127.136765	892.8411002	967.4785022	1264.758265				
995.8187892	0.345388865	0.031227112	0.137293314			SNHG3	
1	28505980	28510892	+	4088			
processed_transcript	small nucleolar RNA host gene 3 [Source:HGNC						
Symbol;Acc:HGNC:10118]	-	1024	1350	1389	1122	977	
986	13.69883965	14.55984794	15.73960447				
13.27037472	10.41459233	11.25931744					
ENSG00000249669	11.56961676	13.90426711	24.4449604	0			
0	5.887293117	16.63961476	1.962431039				
3.091488599	0.031252137	1	CARMN	5	149406689		
149432835	+	17988	lincRNA	cardiac mesoderm			
enhancer-associated non-coding RNA	[Source:HGNC						
Symbol;Acc:HGNC:42872]	-	10	15	25	0	0	
6	0.030402678	0.036765658	0.064381277	0			
0	0.015570925						
ENSG00000120948	3215.196497	2656.64197	2863.971561				
2526.514228	2409.848497	2160.636574	2911.936676				
2365.666433	0.299462628	0.031256772	0.13737112			TARDBP	
1	11012344	11026420	+	6071			
protein_coding	TAR DNA binding protein [Source:HGNC						
Symbol;Acc:HGNC:11571]	-	2779	2866	2929	2515	2637	
2202	25.03358375	20.81372974	22.34918007				
20.02990885	18.9281642	16.93179952					
ENSG00000005073	32.39492692	31.51633879	31.28954932	0			
12.79403828	9.812155195	31.73360501	7.535397826				
2.067877863	0.031262781	0.13737112	HOXA11	7			
27181510	27185223	-	2307	protein_coding			
homeobox A11	[Source:HGNC Symbol;Acc:HGNC:5101] Homeobox						
28	34	32	0	14	10	0.663750941	
0.649778415	0.64254691	0	0.26444724				
0.202347779							
ENSG00000197646	264.9442237	324.4328993	158.4033434				
347.5840648	393.8736072	387.5801302	249.2601555				
376.3459341	-0.594374957	0.031280438	0.137409213				
PDCD1LG2	9	5510570	5571254	+	2365	protein_coding	
programmed cell death 1 ligand 2	[Source:HGNC						
Symbol;Acc:HGNC:18731]	-	229	350	162	346	431	
395	5.295403401	6.524854885	3.17311875				
7.073692394	7.941539911	7.796720871					

ENSG00000128591	4287.69997		3868.167111		4949.615583	
3043.872013	2474.732548		4385.052157		4368.494221	
3301.218906	0.404212338		0.031310238		0.137500606	FLNC
7	128830377		128859274	+	9280	
protein_coding	filamin C [Source:HGNC Symbol;Acc:HGNC:3756]					-
3706	4173	5062	3030	2708	4469	21.83997573
	19.82596643	25.26833467	15.78686404			12.71625656
	22.48062671					
ENSG00000089159	2017.741162		3114.555833		2747.613549	
3396.478969	3344.727151		3297.865361		2626.636848	
3346.35716	-0.34888077		0.031321735		0.13751159	PXN
12	120210439		120265771	-	7460	
protein_coding	paxillin [Source:HGNC Symbol;Acc:HGNC:9718]					-
1744	3360	2810	3381	3660	3361	12.78504809
	19.85794977	17.44897612	21.91328867			21.37966302
	21.03176502					
ENSG00000106355	1635.943809		1319.051473		1476.475608	
1205.493866	1211.778197		1116.623261		1477.156964	
1177.965108	0.32600412		0.031346608		0.137581281	LSM5
7	32485332		32495283	-	4701	
protein_coding	"LSM5 homolog, U6 small nuclear RNA and mRNA degradation associated [Source:HGNC Symbol;Acc:HGNC:17162]"					-
1414	1423	1510	1200	1326	1138	16.44954429
	13.34592276	14.87952789	12.34218953			12.2916977
	11.30051007					
ENSG00000107282	173.5442514		188.1710816		179.9149086	
257.1720248	265.9332243		261.9845437		180.5434138	
261.6965976	-0.535083766		0.031441386		0.137957654	APBA1
9	69427530		69672306	-	11384	
protein_coding	amyloid beta precursor protein binding family A member 1 [Source:HGNC Symbol;Acc:HGNC:578]					-
256	291	267	0.720594735		0.786203746	184
	0.748730271	1.087292256	1.11392692		1.094869632	
ENSG00000157326	149.2480562		202.0753487		152.5365529	
220.0026306	231.206549		320.8574749		167.9533193	
257.3555515	-0.614146298		0.031450639		0.137958656	DHRS4
14	23953586		23969279	+	2305	
protein_coding	dehydrogenase/reductase 4 [Source:HGNC Symbol;Acc:HGNC:16985]					-
327	3.060648763		4.169841256		3.135134119	253
	4.593824521	4.783085996	6.622513599			
ENSG00000226284	25.45315687		4.634755704		22.48936357	0
	3.65543951	3.924862078	17.52575871		2.526767196	
	2.783612234	0.031451602	1		ARPC3P1 20	
49134480	49135012		533	+	processed_pseudogene	
	actin related protein 2/3 complex subunit 3 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:16092]					-
0	4	4	2.257304693		0.413596403	23
	1.998955301	0	0.327032851		0.350331201	
ENSG00000162039	0	0	2.933395248		31.14192488	

1.827719755	6.868508636	0.977798416				
13.27938442	-3.739981548	0.031457868	1	MEIOB	16	
1833987	1884294	-	2303	protein_coding	meiosis	
specific with OB domains	[Source:HGNC Symbol;Acc:HGNC:28569]					-
0	0	3	31	2	7	0
0.060343399	0.650832111	0.037843793	0.141889461			
ENSG00000238269	0	0	0	28.12819022	0	0
0	9.376063406	-5.64733261	0.031463326			1
PAGE2B	X	55075063	55078909	+		507
protein_coding	PAGE family member 2B [Source:HGNC					
Symbol;Acc:HGNC:31805]	-	0	0	0	28	0
0	0	0	0	2.670246094	0	0
ENSG00000077254	2367.143589	2108.813845	2193.201847			
1770.066827	1866.10187	1839.779099	2223.053094			
1825.315932	0.284105048	0.031547891	0.138318853			USP33
1	77695987	77759852	-	6918		
protein_coding	ubiquitin specific peptidase 33 [Source:HGNC					
Symbol;Acc:HGNC:20059]	-	2046	2275	2243	1762	2042
1875	16.17408736	14.49889155	15.01935117			
12.31477731	12.86274849	12.65222045				
ENSG00000135723	2623.989081	2487.009911	2933.395248			
2329.616897	1951.090838	2245.021109	2681.464747			
2175.242948	0.301979797	0.03155085	0.138318853			FHOD1
16	67229387	67247658	-	5407		
protein_coding	formin homology 2 domain containing 1 [Source:HGNC					
Symbol;Acc:HGNC:17905]	-	2268	2683	3000	2319	2135
2288	22.93936509	21.87752864	25.70202496			
20.73698414	17.20679987	19.75357412				
ENSG00000155876	1601.234959	1822.385943	1617.27858			
2047.330416	2148.484572	1984.01778	1680.299827			
2059.944256	-0.293670658	0.031627261	0.138614089			RRAGA
9	19049395	19050983	+	1589		
protein_coding	Ras related GTP binding A [Source:HGNC					
Symbol;Acc:HGNC:16963]	-	1384	1966	1654	2038	2351
2022	47.63288711	54.5498517	48.21854083			
62.01282255	64.47440303	59.40230398				
ENSG00000259933	6.941770054	8.342560268	14.66697624			0
0	1.962431039	9.983768855	0.65414368			
3.944078143	0.031704095	1	AC009065.2	16		
2091436	2095433	+	691	sense_overlapping		
uncharacterized	LOC105371049 [Source:NCBI gene;Acc:105371049]					-
6	9	15	0	0	2	0.474862545
0.574246584	1.005577778	0	0	0	0.135113264	
ENSG00000258858	0	0	1.955596832	15.06867333		
2.741579632	13.73701727	0.651865611				
10.51575675	-3.983991159	0.031727494	1	AL583722.4		
14	104690091	104691284	-	716		
antisense	"novel transcript, antisense to INF2"					-
0	2	15	3	14	0	0
0.12939576	1.012930045	0.182585729	0.912769352			

ENSG00000182667	1442.73121	1354.275617	1335.672636	
921.1982296	1138.669407	1200.02658	1377.559821	
1086.631406	0.341909911	0.031728749	0.139019026	NTM
11	131370478	132336822	+ 6956	
protein_coding	neurotrimin [Source:HGNC Symbol;Acc:HGNC:17941] -			
1247	1461	1366	917	1246
9.260290279	9.096903376	6.373984145	7.805793658	
8.207538329				
ENSG00000094804	2326.64993	2097.690432	1972.219405	
1848.423929	1722.625869	1617.043176	2132.186589	
1729.364325	0.301856145	0.031746494	0.139056919	CDC6
17	40287633	40304657	+ 5557	
protein_coding	cell division cycle 6 [Source:HGNC			
Symbol;Acc:HGNC:1744]	-	2011	2263	2017
1648	19.79093838	17.95469843	16.81388053	1885
16.00953223	14.78187602	13.84404003		
ENSG00000176678	1222.908491	1348.71391	1772.748529	
1139.191704	1094.804133	1135.266356	1448.123643	
1123.087398	0.367139224	0.031815611	0.139319747	FOX11
16	86576368	86582160	+ 3742	
protein_coding	forkhead box L1 [Source:HGNC Symbol;Acc:HGNC:3817]			
Fork	1057	1455	1813	1134
15.44777435	17.14325038	22.44380448	14.65245809	
13.95120218	14.43363144			
ENSG00000100083	1092.171822	1571.182184	1348.384016	
1875.547541	1577.322148	1700.446495	1337.246007	
1717.772061	-0.360434743	0.031831514	0.139349473	GGA1
22	37608475	37633564	+ 9369	
protein_coding	"golgi associated, gamma adaptin ear containing, ARF			
binding protein 1 [Source:HGNC Symbol;Acc:HGNC:17842]"	-			944
1695	1379	1867	1726	1733
7.976464223	6.818258821	9.63501279	8.027977566	
8.634781644				
ENSG00000141556	2282.685386	2454.566621	2772.05851	
1906.689465	1843.255373	2278.382436	2503.103506	
2009.442425	0.317169475	0.03187349	0.139493283	TBCD
17	82752064	82945922	+ 13546	
protein_coding	tubulin folding cofactor D [Source:HGNC			
Symbol;Acc:HGNC:11581]	-	1973	2648	2835
2322	7.965457536	8.618682207	9.694924867	1898
6.774642048	6.488636193	8.001974811		2017
ENSG00000245904	0	0.926951141	0	11.05036044
6.397019142	5.887293117	0.308983714		
7.778224234	-4.416842119	0.031973037	1	AC025164.1
12	92145573	92189660	+ 7589	
antisense	uncharacterized LOC101928617 [Source:NCBI			
gene;Acc:101928617]	-	0	1	0
6	0	0.005809642	0	0.070082462
0.040195005	0.036907339			
ENSG00000183604	98.34174244	59.32487301	59.64570339	

151.6913115	112.4047649	120.6895089	72.43743961	
128.2618618	-0.82820708	0.031985341	0.139907658	SMG1P5
16	30267553	30335374	- 4791	
transcribed_unprocessed_pseudogene		SMG1	pseudogene 5 [Source:HGNC	
Symbol;Acc:HGNC:49862]	-	85 64	61 151	123
123	0.970258526	0.588962659	0.589801836	
1.523884294	1.118761566	1.198463954		
ENSG00000157224	1458.928673	1308.855011	1104.91221	
1726.869964	1724.453589	1462.99234	1290.898631	
1638.105297	-0.34413876	0.031986476	0.139907658	CLDN12
7	90383721	90513402	+ 6741	
protein_coding	claudin 12 [Source:HGNC	Symbol;Acc:HGNC:2034]	-	
1261	1412 1130	1719 1887	1491 10.23023175	
9.235157948	7.765270202	12.32970728	12.1984927	
10.32522091				
ENSG00000149782	1060.933857	1440.482073	1510.698553	
851.8823323	1010.729024	1177.458623	1337.371494	
1013.35666	0.400777166	0.032003532	0.139942219	PLCB3
11	64251523	64269150	+ 4964	
protein_coding	phospholipase C beta 3 [Source:HGNC			
Symbol;Acc:HGNC:9056]	-	917 1554	1545 848	1106
1200	10.10257947	13.8023552	14.41780564	
8.259719443	9.70916657	11.28484268		
ENSG00000039523	1467.027405	1839.071063	2274.359116	
1249.695308	1379.014555	1630.780193	1860.152528	
1419.830019	0.390094518	0.03202939	0.140015238	RIPOR1
16	67518418	67546788	+ 6729	
protein_coding	RHO family interacting cell	polarization regulator 1		
[Source:HGNC	Symbol;Acc:HGNC:25836]	-	1268 1984	2326
1244	1509 1662	10.30536641	12.99945358	
16.012592	8.938632219	9.772311662	11.52992619	
ENSG00000144579	1042.42247	1047.454789	1116.645791	
1300.928798	1270.26523	1413.931564	1068.841017	
1328.375197	-0.313459161	0.032064423	0.140128313	CTDSP1
2	218398256	218405941	+ 4727	
protein_coding	CTD small phosphatase 1 [Source:HGNC			
Symbol;Acc:HGNC:21614]	-	901 1130	1142 1295	1390
1441	10.42398797	10.53966481	11.19136235	
13.24601927	12.81409076	14.23063941		
ENSG00000120217	329.7340776	335.556313	182.8483038	
453.0647781	498.0536332	327.7259835	282.7128981	
426.2814649	-0.593283574	0.032094244	0.140197928	CD274
9	5450503 5470566	+ 4108	protein_coding	CD274
molecule [Source:HGNC	Symbol;Acc:HGNC:17635]	-	285 362	
187	451 545	334 3.794103185	3.885188491	
2.108694316	5.30820056	5.781288804	3.795439453	
ENSG00000268912	155.0328645	156.6547428	121.2470036	
259.1811813	264.1055046	159.9381297	144.311537	
227.7416052	-0.658871942	0.032098695	0.140197928	
AC012313.5	19 58428632	58431148	-	2517

lincRNA novel transcript	-	134	169	124
258	289	163	2.911496655	2.960311737
2.282132866	4.95607314		5.003492175	3.023085461
ENSG00000173376	16.19746346	0	5.866790497	0
0	7.354751319	0	5.366708897	0.032149278
1	NDNF	4	121035613	121073021
3556	protein_coding	neuron derived neurotrophic factor		
[Source:HGNC Symbol;Acc:HGNC:26256]	-	14	0	6
0	0	0	0.215308411	0
0	0	0		0.078161332
ENSG00000103415	565.7542594	668.3317726	682.5032945	
929.2348554	700.0166661	897.8122003	638.8631088	
842.3545739	-0.397918775	0.032155159	0.140404432	HMOX2
16	4474690	4510347	+	3793
oxygenase 2 [Source:HGNC Symbol;Acc:HGNC:5014]	-	489	721	protein_coding heme
698	925	766	915	7.050513186
8.524620139	11.79125703	8.800442803	11.26119003	
ENSG00000184675	389.8960847	528.3621503	446.8538762	
799.6442647	497.1397733	610.3160531	455.0373704	
635.7000304	-0.48095405	0.032197149	0.140547633	AMER1
X	64185117	64205744	-	8443
protein_coding APC membrane recruitment protein 1 [Source:HGNC Symbol;Acc:HGNC:26837]	-	337	570	457
622	2.182869759	2.976542064	2.507389868	796
4.558453143	2.80776469	3.439059037		544
ENSG00000225311	4.627846703	5.561706845	7.822387329	0
0	0	6.003980292	0	5.079765078
0.032316244	1	AL024474.2	6	144311699
144333301	-	501	antisense	"novel transcript,
antisense to UTRN"	-	4	6	8
0	0.436633425	0.528016486	0.739698464	0
0	0			
ENSG00000197134	134.2075544	113.0880392	88.97965587	
90.41203998	43.86527412	38.26740526	112.0917498	
57.51490645	0.96326309	0.032329807	0.141071866	ZNF257
19	22052452	22091480	+	5029
protein_coding zinc finger protein 257 [Source:HGNC Symbol;Acc:HGNC:13498]	zf-C2H2	116	122	91
39	1.261452978	1.069577241	0.838228094	90
0.865290808	0.41592804	0.362017035		48
ENSG00000099954	0	14.83121825	6.844588913	0
0	7.225269056	0	5.350253705	0.032340148
1	CECR2	22	17359949	17558149
10759	protein_coding	"CECR2, histone acetyl-lysine reader		
[Source:HGNC Symbol;Acc:HGNC:1840]"	-	0	16	7
0	0	0	0.065566505	0.030138983
0	0	0		
ENSG00000256628	38.1797353	46.34755704	67.46809072	
93.42577465	113.3186248	83.40331915	50.66512769	
96.7159062	-0.930606809	0.032343871	0.141071866	

ZBTB11-AS1	3	101676475	101679217	+	2743
antisense		ZBTB11 antisense RNA 1 [Source:HGNC			
Symbol;Acc:HGNC:48573]	-	33	50	69	93
85	0.65793478	0.803670736	1.165267782		124
1.639299693	1.969946698	1.446569			
ENSG00000185596	244.1189136	286.4279025	222.9380389		
419.9136968	405.7537856	272.7779144	251.1616183		
366.1484656	-0.543429321	0.032353846	0.141071866		WASH3P
15	101961603	101976543	+	2351	
transcribed_unprocessed_pseudogene		"WAS protein family homolog 3,			
pseudogene [Source:HGNC		Symbol;Acc:HGNC:24362]"	-	211	309
228	418	444	278	4.908225856	5.794818104
4.492464704	8.596563374	8.229793511	5.519988877		
ENSG00000151388	731.1997791	554.3167822	631.6577768		
511.330315	456.0160788	474.9083114	639.0581127		
480.7515684	0.409908796	0.032358295	0.141071866		
ADAMTS12	5	33523535	33892192	-	9778
protein_coding		ADAM metalloproteinase with thrombospondin type			
1 motif 12 [Source:HGNC		Symbol;Acc:HGNC:14605]	-	632	598
646	509	499	484	3.534774864	2.696404908
3.060447549	2.516917416	2.223868536	2.310688296		
ENSG0000010319	27.76708022	29.66243651	56.71230814		
7.032047554	18.27719755	12.75580175	38.04727495		
12.68834895	1.581916925	0.032363383	0.141071866		SEMA3G
3	52433053	52445085	-	5011	
protein_coding		semaphorin 3G [Source:HGNC			
Symbol;Acc:HGNC:30400]		Symbol;Acc:HGNC:30400]			
-	24	32	58	7	20
0.261927774	0.281552594	0.536174366	0.067542146		
0.173925872	0.121105812				
ENSG00000180855	40.49365865	63.03267758	66.4902923		
65.29758443	115.1463446	151.10719	56.67220951		
110.5170397	-0.9607576	0.032401732	0.141198768		ZNF443
19	12429707	12441112	-	2753	
protein_coding		zinc finger protein 443 [Source:HGNC			
Symbol;Acc:HGNC:20878]		zf-C2H2 35	68	68	65
154	0.695274891	1.089022015	1.144208467		126
1.141585284	1.994448982	2.611322707			
ENSG00000112357	86.77212568	134.4079154	80.17947013		
141.6455293	214.7570712	153.069621	100.4531704		
169.8240738	-0.75606588	0.03248274	0.141489052		PEX7
6	136822564	136913937	+	1835	
protein_coding		peroxisomal biogenesis factor 7 [Source:HGNC			
Symbol;Acc:HGNC:8860]		-	75	145	82
156	2.23521811	3.483901692	2.070047159		235
3.715217644	5.580722032	3.968574757			
ENSG00000270872	163.1315963	138.11572	185.7816991		
105.4807133	103.2661661	94.19668987	162.3430051		
100.9811898	0.684576411	0.032486856	0.141489052		
SRGAP2D 1	143975087	144068350	+	1021	
unprocessed_pseudogene		SLIT-R0B0 Rho GTPase activating protein 2D			

(pseudogene) [Source:HGNC Symbol;Acc:HGNC:43932]	-	141			
149	190	105	113	96	7.552453905
6.434198933	8.620457492	4.972385295	4.822933782		
4.389262219					
ENSG00000237818	0	0	0	13.05951689	9.138598774
0	0	7.399371887	-5.307181005	0.032504319	
1	RPS3AP29	7	97898347	97899115	
-	769	processed_pseudogene	ribosomal protein S3a		
pseudogene 29 [Source:HGNC Symbol;Acc:HGNC:35531]	-	0			
0	0	13	10	0	0
0.817369125	0.566672657	0			
ENSG00000270874	0	0	0	7.032047554	6.397019142
4.906077597	0	6.111714764	-5.031388565		
0.03250784	1	RPAP2P1	10	86854696	86856236
-	1168	processed_pseudogene	RNA polymerase II		
associated protein 2 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:45125]	-	0	0	7	7
0	0	0.289771997	0.261164291	0.199835756	
ENSG00000230943	9.255693406	0.926951141	8.800185745	0	
0	0	6.327610097	0	5.151614901	
0.032538091	1	LINC02541	6	113616927	
113650090	-	2145	lincRNA long intergenic non-protein		
coding RNA 2541 [Source:HGNC Symbol;Acc:HGNC:53574]	-				8
1	9	0	0	0.203965824	
0.020554488	0.194364824	0	0	0	
ENSG00000238113	151.5619795	176.1207168	167.2035292		
237.0804604	236.6897083	254.1348195	164.9620751		
242.6349961	-0.555560547	0.032555297	0.141746748		
LINC01410	9	62801461	62813486	+	3038
lincRNA long intergenic non-protein coding RNA 1410					
[Source:HGNC Symbol;Acc:HGNC:50702]	-	131	190	171	
236	259	259	2.358186989	2.757400115	
2.607418825	3.755998844	3.715100719	3.979770517		
ENSG00000271869	1.156961676	1.853902282	1.955596832		
21.09614266	8.224738897	8.830939675	1.65548693		
12.71727374	-2.929735688	0.032617534	1	AC026979.2	
8	30155830	30156232	-	403	
lincRNA novel transcript	-	1	2	2	21
9	9	0.135703068	0.218805839	0.229893877	
2.519506395	0.973186467	1.042517849			
ENSG00000166479	3419.978713	2353.528947	2896.238909		
2292.447503	2198.746865	2386.316143	2889.915523		
2292.503504	0.333735165	0.032632289	0.142031212		TMX3
18	68673688	68715298	-	7637	
protein_coding thioredoxin related transmembrane protein 3					
[Source:HGNC Symbol;Acc:HGNC:24718]	-	2956	2539	2962	
2282	2406	2432	21.16783063	14.65797134	
17.9665512	14.44754534	13.7287637	14.86574969		
ENSG00000047849	7729.660955	8475.114281	9098.414262		
7603.652562	6000.403955	7136.380473	8434.3965		

6913.478997	0.286999562	0.032639213	0.142031212	MAP4
3	47850690	48089272	- 14943	
protein_coding	microtubule associated protein 4 [Source:HGNC			
Symbol;Acc:HGNC:6862]	-	6681 9143	9305 7569	6566
7273	24.45109922	26.9764552	28.84569697	
24.49074099	19.14792332	22.72070626		
ENSG00000236863	10.41265508	10.19646255	8.800185745	0
0	1.962431039	9.803101125	0.65414368	
3.91623764	0.032650813	1	RPL23AP23 1	
235295865	235296335	+	471	processed_pseudogene
	ribosomal protein L23a pseudogene 23 [Source:HGNC			
Symbol;Acc:HGNC:36272]	-	9 11	9 0	0
2	1.045000059	1.0296882	0.885164643	0
0	0.198223493			
ENSG00000169976	1296.954038	1749.156803	1674.968687	
2039.293791	1784.768341	2172.41116	1573.693176	
1998.82443	-0.344295736	0.032666913	0.142111297	SF3B5
6	144094881	144095573	- 693	
protein_coding	splicing factor 3b subunit 5 [Source:HGNC			
Symbol;Acc:HGNC:21083]	-	1121 1887	1713 2030	1953
2214	88.46410554	120.0528912	114.5055624	
141.6328583	122.808268	149.1387222		
ENSG00000103313	18.51138681	3.707804563	0 0 0	
0	7.406397125	0	5.376402033	0.032685239
1	MEFV 16	3242028 3256627	-	4819
protein_coding	"MEFV, pyrin innate immunity regulator [Source:HGNC			
Symbol;Acc:HGNC:6998]"	-	16 4	0 0 0	
0	0.181575718	0.036596287	0 0 0	
0				
ENSG00000115738	79.83035562	112.161088	106.5800274	
169.7737195	162.6670582	151.10719	99.52382368	
161.1826559	-0.692987796	0.032689093	0.14213972	ID2
2	8678845 8684453	+	2205	protein_coding
inhibitor of DNA binding 2 [Source:HGNC				bHLH
Symbol;Acc:HGNC:5361]				
69	121 109	169 178	154	1.711335698
2.419417037	2.289920262	3.705777391	3.51779078	
3.260304496				
ENSG00000164967	170.0733663	237.2994921	205.3376674	
253.1537119	373.7686899	284.5525006	204.2368419	
303.8249675	-0.571902189	0.032701115	0.14213972	RPP25L
9	34610486	34612104	- 1092	
protein_coding	ribonuclease P/MRP subunit p25 like [Source:HGNC			
Symbol;Acc:HGNC:19909]	-	147 256	210 252	409
290	7.361891443	10.33597107	8.908387752	
11.15781404	16.32146986	12.39713685		
ENSG00000175183	255.6885303	298.4782674	276.7169518	
153.700468	208.3600521	204.092828	276.9612498	
188.7177827	0.553507485	0.032708366	0.14213972	CSRP2
12	76858715	76879060	- 5873	
protein_coding	cysteine and glycine rich protein 2 [Source:HGNC			

Symbol;Acc:HGNC:2470]	-	221	322	283	153	228
208	2.057912881	2.417295975	2.232178344			
1.259599984	1.691739322	1.65329126				
ENSG00000140455	1296.954038	983.4951604	1188.025076			
964.3950931	904.7212786	835.0144071	1156.158092			
901.3769263	0.358567658	0.032710639	0.14213972			USP3
15	63504511	63594640	+	7764		
protein_coding	ubiquitin specific peptidase 3	[Source:HGNC				
Symbol;Acc:HGNC:12626]	-	1121	1061	1215	960	990
851	7.89613925	6.025093837	7.249252166			
5.978426892	5.556588882	5.116701353				
ENSG00000076928	4130.353182	5710.945979	4827.390781			
6329.847377	5510.575061	6363.182644	4889.563314			
6067.868361	-0.31121392	0.032732452	0.142178123			
ARHGEF1	19	41883161	41930150	+	8636	
protein_coding	Rho guanine nucleotide exchange factor 1	[Source:HGNC				
Symbol;Acc:HGNC:681]	-	3570	6161	4937	6301	6030
6485	22.60738317	31.45375742	26.48213221			
35.27752127	30.42729017	35.05446817				
ENSG00000131711	3998.459551	2886.525853	3514.207508			
3133.279474	2320.290229	2724.835498	3466.397637			
2726.135067	0.34644186	0.032738078	0.142178123			MAP1B
5	72107234	72209570	+	12630		
protein_coding	microtubule associated protein 1B	[Source:HGNC				
Symbol;Acc:HGNC:6836]	-	3456	3114	3594	3119	2539
2777	14.96459942	10.87049237	13.18187467			
11.94024507	8.760279204	10.26404542				
ENSG00000232814	0	19.46597396	7.822387329	0		
0.913859877	0	9.096120429	0.304619959	4.721184348		
0.032822147	1	COL4A2-AS1	13	110502575		
110508179	-	540	antisense	COL4A2		
antisense RNA 1	[Source:HGNC Symbol;Acc:HGNC:40156]				-	0
21	8	0	1	0	0	1.714586867
0.686275797	0	0.080698384	0			
ENSG00000197951	208.2531016	408.7854531	321.6956789			
468.1334515	529.124869	390.5237767	312.9114112			
462.5940324	-0.561907232	0.032826123	0.142497871			ZNF71
19	56595264	56626481	+	6170		
protein_coding	zinc finger protein 71	[Source:HGNC				
Symbol;Acc:HGNC:13141]	zf-C2H2	180	441	329	466	579
398	1.595445795	3.151282832	2.470092345			
3.65175783	4.089328483	3.011230106				
ENSG00000255717	1389.510973	1593.429011	1476.475608			
1136.177969	1146.894146	1299.129348	1486.471864			
1194.067154	0.316361072	0.032830346	0.142497871			SNHG1
11	62851988	62855914	-	3756		
processed_transcript	small nucleolar RNA host gene 1	[Source:HGNC				
Symbol;Acc:HGNC:32688]	-	1201	1719	1510	1131	1255
1324	17.48687222	20.17828497	18.62317908			
14.55922433	14.56051513	16.45539976				

ENSG00000264364	2082.531016	2290.496269	2231.335986	
2791.722879	2450.058331	2798.426662	2201.454424	
2680.069291	-0.2835174	0.032843707	0.1425154	DYNLL2
17	58083415	58095536	+ 6805	
protein_coding	dynein light chain LC8-type 2 [Source:HGNC			
Symbol;Acc:HGNC:24596]	-	1800 2471	2282 2779	2681
2852	14.46568781	16.00952969	15.53423842	
19.74520439	17.16829955	19.56444027		
ENSG00000186834	1187.042679	1217.086848	1601.633806	
1791.16297	1484.108441	1877.065289	1335.254444	
1717.445567	-0.362749792	0.03295692	0.142966069	HEXIM1
17	45148502	45152101	+ 3600	
protein_coding	hexamethylene bisacetamide inducible 1 [Source:HGNC			
Symbol;Acc:HGNC:24953]	-	1026 1313	1638 1783	1624
1913	15.58617588	16.0803754	21.07724542	
23.94694181	19.65812634	24.80610086		
ENSG00000236562	1.156961676	0 1.955596832	10.04578222	
17.36333767	5.887293117	1.037519503	11.09880434	
-3.435317128	0.032971633	1	AC116049.1	4
66094142	66094526	+ 385		
processed_pseudogene	interferon induced transmembrane protein 3			
(1-8U) (IFITM3) pseudogene	-	1	0 2	10
19	6 0.142047627	0	0.240642163	
1.255857857	2.150559532	0.727505962		
ENSG00000178381	598.1491863	489.4302024	365.6966076	
829.7816114	651.5820926	558.3116306	484.4253321	
679.8917782	-0.489951234	0.033005191	0.143112168	
ZFAND2A 7	1152071 1160759	- 2281	protein_coding zinc	
finger AN1-type	containing 2A [Source:HGNC			
-	517 528	374 826	713 569	
12.39538358	10.20569524	7.595367164	17.50878374	
13.62143437	11.64482636			
ENSG00000015676	2739.685248	3332.389351	3706.833796	
4125.802758	3846.436224	4105.405733	3259.636132	
4025.881572	-0.304267432	0.033014799	0.143112168	NUDCD3
7	44379121	44490880	- 10113	
protein_coding	NudC domain containing 3 [Source:HGNC			
Symbol;Acc:HGNC:22208]	-	2368 3595	3791 4107	4209
4184	12.80549596	15.67302569	17.36505779	
19.63567847	18.13666855	19.31335416		
ENSG00000176402	15.04050178	4.634755704	5.866790497	
24.10987733	46.60685375	19.62431039	8.514015995	
30.11368049	-1.839515269	0.033022646	0.143112168	GJC3
7	99923269	99929620	- 1116	
protein_coding	gap junction protein gamma 3 [Source:HGNC			
Symbol;Acc:HGNC:17495]	-	13 5	6 24	51
20	0.637050514	0.197533049	0.249051701	
1.03979629	1.991427863	0.836588397		
ENSG00000103642	1091.01486	1326.467083	1190.958471	
806.6763123	1095.717993	890.9436917	1202.813471	

931.1126657	0.369433015	0.033028045	0.143112168	LACTB
15	63121800	63142061	+ 3972	
protein_coding	lactamase beta [Source:HGNC Symbol;Acc:HGNC:16468]			
-	943	1431	1218 803	1199 908
12.98366094	15.88416362	14.204976	9.774791938	
13.15432419	10.6714306			
ENSG00000189366	0	12.05036483	7.822387329	15.06867333
	48.4345735	26.49281903	6.62425072	29.99868862
	-2.160880617	0.033061763	0.143166576	ALG1L 3
	125929275	125937039	- 843	protein_coding
	"ALG1, chitobiosyldiphosphodolichol beta-mannosyltransferase			
like [Source:HGNC Symbol;Acc:HGNC:33721]"	-	0	13	
8	15	53	27 0	0.679907349
0.439607272	0.860329671	2.739724496	1.495141256	
ENSG00000244486	698.8048521	1167.958437	2174.623678	
535.4401923	498.0536332	828.1458984	1347.128989	
620.5465747	1.118457336	0.033065863	0.143166576	SCARF2
22	20424815	20437826	- 3341	
protein_coding	scavenger receptor class F member 2 [Source:HGNC			
Symbol;Acc:HGNC:19869]	-	604	1260	2224 533 545
	844	9.886786951	16.627541	30.83619356
7.713508277	7.108510748	11.79266623		
ENSG00000181191	634.0149983	758.2460332	675.6587056	
786.5847478	985.1409479	905.6619245	689.306579	
892.4625401	-0.372277499	0.033068698	0.143166576	PJA1
X	69160851	69165793	- 3117	
protein_coding	praja ring finger ubiquitin ligase 1 [Source:HGNC			
Symbol;Acc:HGNC:16648]	-	548	818	691 783 1078
	923	9.614760463	11.57045558	10.26936762
12.14580142	15.07094748	13.82327457		
ENSG00000227666	0	0	0.977798416	30.13734666 0
	0.981215519	0.325932805	10.37285406	-4.830881976
	0.033094628	1	CYCSP24 9	94038030
94038345	+	316	processed_pseudogene	"cytochrome c,
somatic pseudogene 24 [Source:HGNC Symbol;Acc:HGNC:24398]"	-			
	0	0	1 0	0
	0.146593723	4.590239952	0	0.147726685
ENSG00000166454	2021.212047	1913.227155	1913.5515	
2443.134236	2671.212422	2099.801212	1949.330234	
2404.715956	-0.30311265	0.033135071	0.143413316	ATMIN
16	81035847	81047358	+ 6262	
protein_coding	ATM interactor [Source:HGNC Symbol;Acc:HGNC:29034]			
-	1747	2064	1957 2432	2923 2140
15.25718999	14.53217395	14.47705479	18.7781033	
20.34109602	15.95316092			
ENSG00000110987	401.4657015	411.5663065	412.6309316	
474.1609208	614.1138376	550.4619064	408.5543132	
546.2455549	-0.419243675	0.033244327	0.143812718	BCL7A
12	122019422	122062044	+ 6565	
protein_coding	BCL tumor suppressor 7A [Source:HGNC			

Symbol;Acc:HGNC:1004]	-	347	444	422	472	672
561	2.890609709	2.981825316	2.977694758			
3.476229852	4.460598565	3.989093049				
ENSG00000184489	30.08100357	27.80853423	58.66790497			
103.4715569	63.97019142	77.51602604	38.85248092			
81.65259144	-1.06913958	0.033246166	0.143812718			PTP4A3
8	141391993	141432454	+	2877		
protein_coding	"protein tyrosine phosphatase type IVA, member 3					
[Source:HGNC Symbol;Acc:HGNC:9636]"	-	26	30	60		
103	70	79	0.49422897	0.459743239		
0.966081675	1.731006024	1.060270739	1.281838364			
ENSG00000171574	374.8555829	471.8181307	486.9436112			
736.3558367	491.656614	608.3536221	444.5391083			
612.1220243	-0.460098014	0.033294787	0.143962579			ZNF584
19	58401504	58418327	+	3696		
protein_coding	zinc finger protein 584 [Source:HGNC					
Symbol;Acc:HGNC:27318]	zf-C2H2	324	509	498	733	538
620	4.794107414	6.071832435	6.241656094			
9.588998012	6.343207391	7.83079334				
ENSG00000162885	340.1467327	388.392528	420.4533189			
225.0255217	329.9034157	251.191173	382.9975265			
268.7067035	0.511117245	0.033299645	0.143962579			
B3GALNT2	1	235449923	235504481	-		5702
protein_coding	"beta-1,3-N-acetylgalactosaminyltransferase 2					
[Source:HGNC Symbol;Acc:HGNC:28596]"	-	294	419	430		
224	361	256	2.819777431	3.239819149		
3.493362858	1.89942444	2.758916691	2.095843201			
ENSG00000163694	83.30124065	62.10572644	128.0915925			
51.23348932	36.5543951	50.04199149	91.16618654			
45.94329197	0.989684031	0.033310998	0.143970942			RBM47
4	40423267	40630875	-	8544		
protein_coding	RNA binding motif protein 47 [Source:HGNC					
Symbol;Acc:HGNC:30358]	-	72	67	131	51	40
51	0.460856768	0.345738323	0.710252076			
0.288609188	0.204012769	0.278647385				
ENSG00000255142	2.313923351	6.488657986	3.911193665			
20.09156444	12.79403828	26.49281903	4.237925001			
19.79280725	-2.208905505	0.033324273	0.143987609			
AP006621.2	11	781645	782105	+	284	lincRNA novel
transcript	-	2	7	4	20	14
	0.38512913	1.086709986	0.6524453		3.404966725	
	2.14816825	4.438042532				
ENSG00000178814	98.34174244	252.1307103	162.3145371			
292.3322626	264.1055046	275.721561	170.9289966			
277.3864427	-0.694809012	0.033344935	0.144036174			OPLAH
8	144051266	144063965	-	4452		
protein_coding	"5-oxoprolinase, ATP-hydrolysing [Source:HGNC					
Symbol;Acc:HGNC:8149]"	-	85	272	166	291	289
281	1.044139397	2.693690573	1.727250743			
3.160378145	2.828793757	2.946437275				

ENSG00000096654	317.0074991	243.78815	298.2285169		
188.8607057	187.3412749	215.8674143	286.3413887		
197.356465	0.536064681	0.033357787	0.144050985	ZNF184	
6	27450743	27473118	-	3122	
protein_coding	zinc finger protein 184 [Source:HGNC				
Symbol;Acc:HGNC:12975]	zf-C2H2	274	263	305	188
220	4.799681032	3.714127495	4.52552946		205
2.911562834	2.861406505	3.289544895			
ENSG00000142408	65.94681552	75.08304241	86.04626062		
161.7370937	102.3523063	128.5392331	75.69203952		
130.876211	-0.787821075	0.03339363	0.144165046	CACNG8	
19	53963040	53990215	+	8747	
protein_coding	calcium voltage-gated channel auxiliary subunit gamma				
8 [Source:HGNC	Symbol;Acc:HGNC:13628]	-	57	81	88
161	112	131	0.356377635	0.40828164	
0.466043013	0.889954833	0.557978537	0.699130429		
ENSG00000249700	28.92404189	27.80853423	3.911193665		
125.5722778	59.40089203	12.75580175	20.21458993		
65.90965718	-1.707462586	0.033420243	0.144239203		
SRD5A3-AS1	4	55363971	55395847	-	5148
processed_transcript	SRD5A3 antisense RNA 1 [Source:HGNC				
Symbol;Acc:HGNC:44138]	-	25	30	4	125
13	0.265580499	0.256931099	0.035993486		65
1.17401242	0.550216254	0.11788291			
ENSG00000185267	9.255693406	20.3929251	13.68917783		
38.17397244	23.76035681	62.79779325	14.44593211		
41.57737417	-1.517050321	0.033468396	0.144406257	CDNF	
10	14819250	14838575	-	1733	
protein_coding	cerebral dopamine neurotrophic factor [Source:HGNC				
Symbol;Acc:HGNC:24913]	-	8	22	14	38
64	0.252456256	0.559703569	0.374224252		26
1.060196217	0.653782638	1.723961041			
ENSG00000181856	2.313923351	4.634755704	0.977798416		
15.06867333	19.19105743	12.75580175	2.642159157		
15.67184417	-2.559733015	0.033503203	1	SLC2A4	17
7281667	7288257	+	4046	protein_coding	solute carrier
family 2 member	4 [Source:HGNC Symbol;Acc:HGNC:11009]				
5	1	15	21	13	0.027033285
0.054485142	0.011449238	0.179253068	0.226178862		
0.149990416					
ENSG00000248916	0	0.926951141	0	25.11445555	0
3.924862078	0.308983714	9.679772543	-4.731016163		
0.033506211	1	NUP210P3	3	129323046	
129325426	-	388	unprocessed_pseudogene		
nucleoporin 210	pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:42712]				
-	0	1	0	25	0
0.113632414	0	3.115369039	0	0.481253944	
ENSG00000280890	11.56961676	2.780853423	3.911193665	0	
0	0	6.087221281	0	5.094046066	
0.033545596	1	ELDR	7	55235965	55255635

-	2941	lincRNA EGFR long non-coding downstream RNA	-	10	3	4
[Source:HGNC Symbol;Acc:HGNC:49511]						
0	0	0	0.185951501	0.044973863		
0.063003898	0	0	0			
ENSG00000251870	8.09873173	0.926951141	9.777984162	0		
0	0	6.267889011	0	5.138645252		
0.033549191	1	RNU2-69P	18	58926197		
58926296	-	100	snRNA	"RNA, U2 small nuclear 69,		
pseudogene [Source:HGNC Symbol;Acc:HGNC:48562]"	-			7	1	
10	0	0	0	3.82818355	0.440893766	
4.632361631	0	0	0			
ENSG00000184831	214.03791	306.8208276	300.1841138			
205.9385355	164.4947779	182.5060866	273.6809505			
184.3131334	0.572360566	0.033566582	0.144778934		AP00	
X	23833353	23907934	-	2353		
protein_coding	apolipoprotein 0	[Source:HGNC Symbol;Acc:HGNC:28727]				
-	185	331	307	205	180	186
4.299762958	6.202117997	6.04392274	4.212434397			
3.333566903	3.690090801					
ENSG00000163638	34.70885027	66.74048214	65.51249388			
86.39372709	100.5245865	130.5016641	55.6539421			
105.8066592	-0.922190829	0.033573711	0.144778934			
ADAMTS9	3	64515654	64688000	-	10680	
protein_coding	ADAM metalloproteinase with thrombospondin type 1 motif	9 [Source:HGNC Symbol;Acc:HGNC:13202]	-	30	72	67
86	110	133	0.153618923	0.297231752		
0.290606956	0.389339454	0.448828091	0.581334937			
ENSG00000102931	32.39492692	112.161088	108.5356242			
205.9385355	103.2661661	186.4309487	84.36387972			
165.2118835	-0.964263054	0.033598759	0.144846089		ARL2BP	
16	57245098	57253635	+	2155		
protein_coding	ADP ribosylation factor like GTPase 2 binding protein	[Source:HGNC Symbol;Acc:HGNC:17146]	-	28	121	111
205	113	190	0.710567712	2.475552003		
2.386042418	4.599470133	2.285018743	4.115781989			
ENSG00000113161	1639.414694	1440.482073	1980.041793			
1496.821551	1270.26523	1179.421054	1686.646187			
1315.502612	0.358607231	0.033609872	0.144853149		HMGR	
5	75336329	75362104	+	6215		
protein_coding	3-hydroxy-3-methylglutaryl-CoA reductase	[Source:HGNC Symbol;Acc:HGNC:5006]	-	1417	1554	2025
1202	12.46876472	11.02411765	15.09337458			
11.59167916	9.74613146	9.028370448				
ENSG00000101162	3.470885027	16.68512054	26.40055724			
59.2701151	39.29597473	40.2298363	15.51885427			
46.26530871	-1.564980453	0.033624289	0.144874437		TUBB1	
20	59019254	59026654	+	3496		
protein_coding	tubulin beta 1 class VI	[Source:HGNC Symbol;Acc:HGNC:16257]	-	3	18	27
41	0.04692935	0.227004799	0.357762483		59	43

0.815984303	0.535988695	0.547467659				
ENSG00000159363	1725.029858	1609.187181	2101.288796			
1603.306842	1269.35137	1410.006701	1811.835278			
1427.554971	0.34412923	0.033642205	0.144910787			
ATP13A2 1	16985958	17011928	-	5253		
protein_coding	ATPase cation transporting 13A2	[Source:HGNC				
Symbol;Acc:HGNC:30213]	-	1491 1736	2149 1596	1389		
1437	15.52261748	14.57056115	18.95097115			
14.69016598	11.52267845	12.77013249				
ENSG00000186222	433.8606284	543.1933685	455.6540619			
766.4931834	667.1177105	517.1005788	477.569353			
650.2371576	-0.444462585	0.03374095	0.145295185			
BLOC1S4 4	6716055 6717671 +	1617	protein_coding			
biogenesis of lysosomal organelles complex 1 subunit 4	[Source:HGNC					
Symbol;Acc:HGNC:24206]	-	375 586	466 763	730		
527	12.68282385	15.97796826	13.34991045			
22.81475107	19.67303832	15.21411277				
ENSG00000273456	11.56961676	12.97731597	9.777984162			
51.23348932	21.93263706	30.4176811	11.44163896			
34.52793583	-1.59164757	0.033763076	0.145332306			
AC064836.3	2 202374932	202375604	-	673		
lincRNA	novel transcript	-	10 14	10		
51	24 31	0.812605296	0.917163852			
0.68831525	3.664007284	1.554013457	2.150268364			
ENSG00000037757	549.556796	647.9388475	544.6337178			
884.0288354	760.331418	656.4331825	580.7097871			
766.9311453	-0.400683188	0.033768585	0.145332306	MRI1		
19	13764532	13774282	+ 3456			
protein_coding	methylthioribose-1-phosphate isomerase 1	[Source:HGNC				
Symbol;Acc:HGNC:28469]	-	475 699	557 880	832		
669	7.516481425	8.917382589	7.46593006			
12.31147691	10.49078992	9.036461857				
ENSG00000270165	11.56961676	3.707804563	2.933395248	0		
0	0 6.07027219	0	5.090191421			
0.033812527	1 AC010530.1	16	67738588			
67739922	- 569	sense_intronic	novel transcript			
-	10 4	3 0	0 0			
0.961130693	0.309942893	0.244236993	0 0	0		
ENSG00000115363	804.0883646	916.7546783	815.4838791			
458.0876692	822.4738897	557.3304151	845.4423073			
612.630658	0.464248901	0.033830761	0.145535453	EVA1A		
2	75469302	75569722	- 2744			
protein_coding	"eva-1 homolog A, regulator of programmed cell death	[Source:HGNC				
Symbol;Acc:HGNC:25816]"	-	695 989	834			
456	900 568	13.85145547	15.89081393			
14.07940817	8.034927309	14.29278958	9.662961841			
ENSG00000155367	20.82531016	10.19646255	3.911193665			
25.11445555	52.09001301	34.34254318	11.64432213			
37.18233725	-1.688520154	0.033834827	0.145535453	PPM1J		
1	112709994	112715477	- 2874			

protein_coding	"protein phosphatase, Mg2+/Mn2+ dependent 1J						
	[Source:HGNC Symbol;Acc:HGNC:20785]"	-	18	11	4		
	25	57	35	0.342515677	0.168748484		
0.064472674	0.42058566		0.86426453	0.568495873			
ENSG00000218052	10.41265508		2.780853423	4.888992081	0		
	0	0	6.027500195	0	5.080545494		
0.03388097	1		ADAMTS7P4	15	85255369		
85330334	-		5516	transcribed_unprocessed_pseudogene			
	ADAMTS7		pseudogene 4	[Source:HGNC Symbol;Acc:HGNC:49410]			
	-	9	3	5	0	0	0
0.089230426	0.023978994		0.041990225	0	0	0	
ENSG00000267672	2.313923351		0	1.955596832	11.05036044		
	13.70789816		11.77458623	1.423173395	12.17761495		
	-3.127139623		0.033898537	1	AC010632.2	19	
	37091341		37092564	+	1224	sense_intronic	
	novel transcript		-	2	0	2	11
	15	12	0.089360027	0	0.075692184		
0.434522714	0.534033423		0.457663064				
ENSG00000116213	1147.705982		1353.348666	1287.760514			
1612.348046	1589.202327		1490.466374	1262.938387			
1564.005582	-0.307973039		0.033968706	0.146017849	WRAP73		
	1	3630767	3652761	-	7604	protein_coding	"WD
	repeat containing, antisense to		TP73	[Source:HGNC			
	Symbol;Acc:HGNC:12759]"	-	992	1460	1317	1605	1739
	1519	7.134512065	8.465345845	8.023172368			
10.20549666	9.965889593		9.325276151				
ENSG00000227376	1.156961676		9.269511408	0	27.12361199		
	13.70789816		22.56795695	3.475491028	21.1331557		
	-2.580266234		0.033974867	0.146017849	FTH1P16	11	
	77734475		77735026	-	552		
	processed_pseudogene		ferritin heavy chain 1	pseudogene 16			
	[Source:HGNC Symbol;Acc:HGNC:3986]	-	1	10	0		
	27	15	23	0.099073073	0.79872059	0	
	2.364971453		1.184161069	1.945068023			
ENSG00000088386	6.941770054		9.269511408	1.955596832	0		
	0	0	6.055626098	0	5.091203566		
0.033982655	1		SLC15A1 13	98683801	98752654		
	-	4192	protein_coding	solute carrier family 15			
	member 1		[Source:HGNC Symbol;Acc:HGNC:10920]	-	6	10	
	2	0	0	0.078275291	0.10517504		
	0.022100962		0	0			
ENSG00000157021	106.4404742		70.4482867	46.93432398			
3.013734666	46.60685375		29.43646558	74.60769495			
26.35235133	1.496362328		0.033998181	0.146017849			
FAM92A1P1	15		41163162	41164374	+	890	
	unprocessed_pseudogene		family with sequence similarity 92				
	member A1		pseudogene 1	[Source:HGNC Symbol;Acc:HGNC:32278]	-		
	92	76	48	3	51	30	5.65317635
	3.764935528		2.49835234	0.162979306	2.497116287		
	1.573538176						

ENSG00000104529	1903.201957	2876.32939	3381.226923		
4121.784445	2768.995429	4118.161535	2720.252757		
3669.647136	-0.431480596	0.034004993	0.146017849	EEF1D	
8	143579697	143599541	-	9390	
protein_coding	eukaryotic translation elongation factor 1 delta				
[Source:HGNC Symbol;Acc:HGNC:3211]	-	1645	3103	3458	
4103	3030	4197	9.580651057	14.56968429	
17.05932537	21.12696638	14.06162895	20.86504918		
ENSG00000117501	0	8.342560268	8.800185745	42.19228532	
31.98509571	8.830939675	5.714248671	27.66944024		
-2.257025768	0.034012452	0.146017849	MROH9	1	
170935471	171064765	+	3831	protein_coding	
maestro heat like repeat family member 9	[Source:HGNC				
Symbol;Acc:HGNC:26287]	-	0	9	9	42 35
9	0	0.103577236	0.108826037	0.530076261	
0.398120454	0.109667109				
ENSG00000144476	64.78985384	5.561706845	3.911193665		
9.041203998	0	0.981215519	24.75425145	3.340806506	
2.894767716	0.034015696	0.146017849	ACKR3	2	
236567787	236582358	+	2258	protein_coding	
atypical chemokine receptor 3	[Source:HGNC				
Symbol;Acc:HGNC:23692]	-	56	6	4	9 0
1	1.356309495	0.117155119	0.082061322		
0.192716894	0	0.020673885			
ENSG00000224870	268.4151088	450.4982545	418.4977221		
462.1059821	539.1773277	614.2409152	379.1370284		
538.508075	-0.504431599	0.034015874	0.146017849		
AL391244.1	1	1399522	1402046	+	2525
processed_transcript	uncharacterized LOC148413 [Source:NCBI				
gene;Acc:148413]	-	232	486	428	460 590
626	5.024829328	8.48611367	7.85208229		
8.808412929	10.18237827	11.57334732			
ENSG00000162461	17.35442514	7.415609127	16.62257307		
36.16481599	47.52071363	32.38011214	13.79753578		
38.68854725	-1.494494914	0.034024668	0.146017849		
SLC25A34	1	15736405	15741396	+	3195
protein_coding	solute carrier family 25 member 34				
[Source:HGNC Symbol;Acc:HGNC:27653]	-	15	8	17	
36	52	33	0.256752753	0.110395935	
0.246479336	0.544794676	0.709236502	0.482157707		
ENSG00000121057	1604.705844	1605.479376	1804.038078		
2290.438346	1944.693819	1953.600099	1671.407766		
2062.910755	-0.303416641	0.034032943	0.146017849	AKAP1	
17	57085092	57121349	+	5399	
protein_coding	A-kinase anchoring protein 1 [Source:HGNC				
Symbol;Acc:HGNC:367]	-	1387	1732	1845	2280 2128
1991	14.04940223	14.14387854	15.83016709		
20.41844836	17.17579682	17.21487876			
ENSG00000269907	2.313923351	12.05036483	3.911193665	0	
0	0	6.091827282	0	5.103647423	

0.03403824	1	AL158827.2	9	96910076	
96910405	+	330	processed_pseudogene	"prothymosin,	
alpha (PTMA) pseudogene"		-	2	13	4 0
0	0	0.331444463	1.736854229	0.56149838	
0	0	0			
ENSG00000236609	236.0201818	390.2464303	351.0296314		
293.3368408	572.0762833	634.8464411	325.7654145		
500.0865217	-0.617237239	0.034101716	0.146271868	ZNF853	
7	6615617 6624290	+	3857	protein_coding	zinc
finger protein	853 [Source:HGNC	Symbol;Acc:HGNC:21767]	zf-C2H2	204	
421	359 292	626 647	2.892512479		
4.812452046	4.311687388	3.660449579	7.072668323		
7.83070165					
ENSG00000133083	594.6783013	366.1457006	487.9214097		
330.506235	383.8211485	311.0453197	482.9151372		
341.7909011	0.496975086	0.034113961	0.146283342	DCLK1	
13	35768652	36131306	-	14375	
protein_coding	doublecortin like kinase 1	[Source:HGNC			
Symbol;Acc:HGNC:2700]	-	514 395	499 329	420	
317	1.95546469	1.211499391	1.608033707		
1.106596421	1.273209982	1.02943148			
ENSG00000135870	1136.136366	879.6766327	980.7318114		
836.8136589	804.1966921	669.1889843	998.8482699		
770.0664451	0.374597484	0.034143605	0.146343954	RC3H1	
1	173931214	174022297	-	11508	
protein_coding	ring finger and CCCH-type domains 1	[Source:HGNC			
Symbol;Acc:HGNC:29434]	-	982 949	1003 833	880	
682	4.666662007	3.635802778	4.037416333		
3.499825287	3.332279464	2.766499253			
ENSG00000128973	518.3188307	640.5232383	660.9917293		
518.3623626	374.6825497	451.359139	606.6112661		
448.1346838	0.438094493	0.034147242	0.146343954	CLN6	
15	68206992	68257211	-	7345	
protein_coding	"CLN6, transmembrane ER protein	[Source:HGNC			
Symbol;Acc:HGNC:2077]"	-	448 691	676 516	410	
460	3.335653468	4.147822902	4.263412475		
3.39671507	2.432487708	2.923560378			
ENSG00000152102	4047.051942	4086.000629	4540.895845		
5305.177591	5055.472842	4814.824554	4224.649472		
5058.491662	-0.259804171	0.034176464	0.14642814		
FAM168B 2	131047876	131093460	-	5435	
protein_coding	family with sequence similarity 168 member B	[Source:HGNC			
Symbol;Acc:HGNC:27016]	-	3498 4408	4644		
5281	5532 4907	35.19775544	35.75822851		
39.58176157	46.98052175	44.35486081	42.14659999		
ENSG00000257086	1.156961676	8.342560268	7.822387329		
41.1877071	12.79403828	21.58674143	5.773969758		
25.18949561	-2.106643072	0.034274717	0.146807955		
AP001453.3	11 64246939	64249494	-	853	
lincRNA novel transcript		-	1 9	8	

41	14	22	0.064112938	0.465186857		
0.434453611	2.323999563		0.715216627	1.203981144		
ENSG00000169252	3.470885027		4.634755704	9.777984162	0	
0	0	5.961208298	0	5.07008405		
0.034276556	1	ADRB2	5	148825245	148828687	
+	3443	protein_coding	adrenoceptor	beta 2		
[Source:HGNC Symbol;Acc:HGNC:286]			-	3	5	10
0	0	0	0.04765176	0.064027558		
0.13454434	0	0	0			
ENSG00000249690	0	0	0	3.013734666	5.483159264	
9.812155195	0	6.103016375		-5.029465935		
0.034278484	1	AC110813.1	4	150579089		
150581545	+	2209	antisense	uncharacterized		
LOC729558	[Source:NCBI gene;Acc:729558]		-	0	0	0
3	6	10	0	0	0	0.065663912
0.118362501		0.211324729				
ENSG00000186073	468.5694787		345.7527755	362.7632124		
213.9751613	318.9370972		285.5337162	392.3618222		
272.8153249	0.5224575		0.034288228	0.146820539		
C15orf41	15	36579611		36810248	+	9293
	protein_coding	chromosome 15 open reading frame 41				
[Source:HGNC Symbol;Acc:HGNC:26929]			-	405	373	371
213	349	291	2.383382789	1.769647849		
1.849355607	1.108217191		1.636545512	1.461783608		
ENSG00000128965	97.18478076		154.8008405	123.2026004		
117.535652	300.6598997		226.660785	125.0627406		
214.9521122	-0.780240342		0.034309899	0.146820539		CHAC1
15	40952962		40956519	+	2058	
protein_coding	ChaC	glutathione specific gamma-				
glutamylcyclotransferase 1	[Source:HGNC Symbol;Acc:HGNC:28680]		-			
84	167	126	117	329	231	2.232176997
3.577709373		2.836139774		2.748790922		6.966411516
5.239775083						
ENSG00000165724	748.5542042		908.412118	753.8825789		
955.3538891	1007.987445		1119.566908	803.6163004		
1027.636081	-0.354203862		0.03431997	0.146820539		
ZMYND19	9	137582079		137590490	-	2372
protein_coding	zinc finger MYND-type containing 19	[Source:HGNC				
Symbol;Acc:HGNC:21146]			-	647	980	771
1141	14.91709683		18.21567835	15.05712824	951	1103
19.3850555	20.26373165		22.45520352			
ENSG00000059804	992.6731178		926.0241897	589.6124449		
1113.07267	1409.171931		932.1547435	836.1032508		
1151.466448	-0.462378049		0.034330398	0.146820539		SLC2A3
12	7919230	7936275	-	6159	protein_coding	solute
carrier family 2 member 3	[Source:HGNC Symbol;Acc:HGNC:11007]		-			
858	999	603	1108	1542	950	7.618540779
7.151369898		4.535337009		8.698227709		10.91020139
7.200446652						
ENSG00000135916	618.9744965		1027.061864	1277.98253		

685.1223474	686.3087679	719.2309758	974.6729635	
696.8873637	0.484893168	0.034337898	0.146820539	ITM2C
2	230864639	230879248	+ 2611	
protein_coding	integral membrane protein 2C	[Source:HGNC		
Symbol;Acc:HGNC:6175]	-	535 1108	1307 682	751
733	11.2057679	18.70970098	23.18842073	
12.6292837	12.53405693	13.10518447		
ENSG00000140395	715.0023156	654.4275054	635.5689705	
424.9365879	562.9376845	527.8939495	668.3329305	
505.256074	0.402764055	0.034339815	0.146820539	WDR61
15	78277835	78299794	- 7279	
protein_coding	WD repeat domain 61	[Source:HGNC		
Symbol;Acc:HGNC:30300]	-	618 706	650 423	616
538	4.643136683	4.276287933	4.136605386	
2.809764134	3.687801958	3.450297886		
ENSG00000166734	2483.996718	2083.786165	2013.286939	
1779.108031	1933.727501	1552.282952	2193.68994	
1755.039495	0.321401864	0.034344884	0.146820539	CASC4
15	44288729	44415758	+ 7095	
protein_coding	cancer susceptibility 4	[Source:HGNC		
Symbol;Acc:HGNC:24892]	-	2147 2248	2059 1771	2116
1582	16.54909913	13.9694036	13.44331585	
12.06889136	12.99636385	10.40878685		
ENSG00000168404	422.2910116	422.6897202	385.252576	
543.4768181	527.2971493	548.4994754	410.0777693	
539.7578143	-0.396522751	0.03437852	0.14692324	MLKL
16	74671855	74700960	- 5692	
protein_coding	mixed lineage kinase domain like pseudokinase	[Source:HGNC		
Symbol;Acc:HGNC:26617]	-	365 456		394
541	577 559	3.506894378	3.53210747	
3.206518768	4.595508674	4.417428405	4.584510295	
ENSG00000076513	1492.480562	1249.530138	1414.874308	
936.2669029	1141.410987	1198.064149	1385.628336	
1091.914013	0.343188133	0.034388972	0.146926833	
ANKRD13A	12 109999186	110039763	+ 7350	
protein_coding	ankyrin repeat domain 13A	[Source:HGNC		
Symbol;Acc:HGNC:21268]	-	1290 1348	1447 932	1249
1221	9.598361088	8.08605165	9.119765007	
6.130978452	7.40514722	7.754867122		
ENSG00000182871	702.2757372	619.2033621	1961.463623	
618.8201848	309.7984984	435.6596906	1094.314241	
454.759458	1.267042968	0.034402348	0.146942915	
COL18A1 21	45405137	45513720	+ 8525	
protein_coding	collagen type XVIII alpha 1 chain	[Source:HGNC		
Symbol;Acc:HGNC:2195]	-	607 668	2006 616	339
444	3.893937855	3.454745285	10.9003137	
3.493715535	1.732861721	2.431277989		
ENSG00000075303	760.1238209	831.4751733	662.9473262	
463.1105604	712.8107044	471.9646649	751.5154401	
549.2953099	0.451658881	0.034457687	0.147138175	

SLC25A40	7	87833568	87876357	-	5081
protein_coding solute carrier family 25 member 40					
[Source:HGNC Symbol;Acc:HGNC:29680]	-	657	897	678	
461	780	481	7.071489281	7.783540797	
6.18134459	4.386851638	6.689659385	4.419182299		
ENSG00000112679	320.4783842	490.3571535	349.0740346		
538.453927	560.1961049	504.344777	386.6365241		
534.331603	-0.465283539	0.034514145	0.147329822	DUSP22	
6	291630	351355	+	5686	protein_coding dual
specificity phosphatase 22 [Source:HGNC Symbol;Acc:HGNC:16077]					
277	529	357	536	613	514
4.101878335	2.90846483	4.557840791	4.697991394		
4.21990136					
ENSG00000267796	16.19746346	29.66243651	33.24514615		
27.12361199	74.02265007	93.21547435	26.36834871		
64.78724547	-1.292751278	0.034521844	0.147329822	LIN37	
19	35748361	35754519	+	2820	
protein_coding lin-37 DREAM MuvB core complex component [Source:HGNC Symbol;Acc:HGNC:33234]					
95	0.271502379	0.500304982	0.558511686		81
0.462930582	1.251683445	1.572608189			
ENSG00000267470	3.470885027	7.415609127	6.844588913	0	
0	0	5.910361022	0	5.058335747	
0.034550889	1	ZNF571-AS1	19	37548914	
37587348	+	4560	antisense	ZNF571 antisense RNA 1	
[Source:HGNC Symbol;Acc:HGNC:44324]	-			3	8
0	0	0	0.035979169	0.077349783	7
0.071110815	0	0	0		
ENSG00000124549	84.45820233	109.3802346	143.7363672		
43.19686355	56.6593124	81.44088812	112.5249347		
60.43235469	0.898155326	0.034563481	0.14746635		
BTN2A3P 6	26421391	26432383	+	4177	
transcribed_unprocessed_pseudogene "butyrophilin subfamily 2 member A3, pseudogene [Source:HGNC Symbol;Acc:HGNC:13229]"					
73	118	147	43	62	83
1.24552225	1.630254153	0.497743041	0.646823533		
0.927597678					
ENSG00000146463	2686.465011	2137.549331	2264.581132		
2080.481498	1867.01573	1761.281857	2362.865158		
1902.926362	0.311991572	0.034582039	0.147504361	ZMYM4	
1	35268967	35422058	+	7647	
protein_coding zinc finger MYM-type containing 4 [Source:HGNC Symbol;Acc:HGNC:13055]					
1795	16.60603076	13.29542335	14.02974962	2043	
13.09453935	11.64222194	10.95769981			
ENSG00000214842	0	0	0.977798416	15.06867333	
5.483159264	2.943646558	0.325932805			
7.831826384	-4.426230879	0.034590745	1	RAD51AP2	
2	17510584	17518439	-	3724	
protein_coding RAD51 associated protein 2 [Source:HGNC					

Symbol;Acc:HGNC:34417]	-	0	0	1	15	6
3	0	0	0.01243921	0.194752393		
0.070210194	0.037606041					
ENSG00000088387	1861.551336	1848.340575	1354.250806			
2347.699305	2015.06103	2059.571375	1688.047572			
2140.777237	-0.342907443	0.034593976	0.147514118			DOCK9
13	98793429	99086625	-	14816		
protein_coding	dedicator of cytokinesis 9 [Source:HGNC					
Symbol;Acc:HGNC:14132]	-	1609	1994	1385	2337	2205
2099	5.939088372	5.933734942	4.330332653			
7.62656471	6.485391861	6.613441329				
ENSG00000184260	41.65062033	30.58938765	11.73358099	0		
10.96631853	6.868508636	27.99119632	5.944942388			
2.22583057	0.034657048	0.147692509	HIST2H2AC			
1	149886975	149887364	+	390		
protein_coding	histone cluster 2 H2A family member c [Source:HGNC					
Symbol;Acc:HGNC:4738]	-	36	33	12	0	12
7	5.048154132	3.730639557	1.42534204	0		
1.340834688	0.837875456					
ENSG00000065882	1330.505927	1310.708913	1685.724469			
958.3676238	1240.107854	1170.590115	1442.313103			
1123.021864	0.360932381	0.034660794	0.147692509			TBC1D1
4	37891087	38139175	+	9032		
protein_coding	TBC1 domain family member 1 [Source:HGNC					
Symbol;Acc:HGNC:11578]	-	1150	1414	1724	954	1357
1193	6.963196069	6.902389115	8.842107454			
5.1069977	6.547183549	6.165986231				
ENSG00000275700	2763.981443	3366.686544	3075.176019			
3675.751714	3381.281546	4310.479777	3068.614669			
3789.171013	-0.304001324	0.034668604	0.147692509			AATF
17	36948875	37056871	+	4714		
protein_coding	apoptosis antagonizing transcription factor					
[Source:HGNC Symbol;Acc:HGNC:19235]	-		2389	3632		3145
3659	3700	4393	27.71540851	33.96958331		
30.90534012	37.52960969	34.20351532	43.5028451			
ENSG00000261819	3.470885027	32.44328993	17.60037149			
66.30216265	48.4345735	41.21105182	17.83818215			
51.98259599	-1.530398395	0.034674456	0.147692509			
AC138932.3	16	14988259	14990160	-		1902
processed_pseudogene	uncharacterized protein KIAA2013					
[Source:NCBI gene;Acc:102724984]	-		3	35		18
66	53	42	0.086259206	0.811318707		
0.438393845	1.677778557	1.214294295	1.030824694			
ENSG00000144736	1679.908353	1409.892685	1570.344256			
1837.373568	1846.910812	2062.515022	1553.381765			
1915.599801	-0.302759511	0.034698122	0.147706495			SHQ1
3	72749277	72861914	-	5841		
protein_coding	"SHQ1, H/ACA ribonucleoprotein assembly factor					
[Source:HGNC Symbol;Acc:HGNC:25543]"	-		1452	1521		1606
1829	2021	2102	13.59484069	11.48090083		

12.73681352	15.14006416	15.07779051	16.79931375	
ENSG00000110092	8490.941738	8582.640613	6302.888591	
8806.132694	9370.719183	10939.57183	7792.156981	
9705.474568	-0.316817061	0.03471236	0.147706495	CCND1
11	69641087	69654474	+ 4830	
protein_coding	cyclin D1 [Source:HGNC Symbol;Acc:HGNC:1582]			-
7339	9259	6446	8766	10254
	11149	83.09683252		
	84.5183308	61.82236662	87.75170269	92.51342938
	107.7543522			
ENSG00000247596	947.5516124	1379.303298	1240.82619	
1376.272164	1565.44197	1661.197874	1189.227033	
1534.304003	-0.366793349	0.034712801	0.147706495	TWF2
3	52228610	52239260	- 1824	
protein_coding	twinfilin actin binding protein 2 [Source:HGNC Symbol;Acc:HGNC:9621]			-
1693	24.55578264	35.96764931	32.22843701	1713
36.31591155	40.9252298	43.32894952		
ENSG00000106367	853.8377167	1478.48707	1231.048206	
1406.409511	1553.561792	1801.511694	1187.790997	
1587.160999	-0.417283439	0.034723196	0.147706495	AP1S1
7	101154400	101161596	+ 1756	
protein_coding	adaptor related protein complex 1 subunit sigma 1 [Source:HGNC Symbol;Acc:HGNC:559]			-
1400	1700	1836	22.98405028	40.04701346
33.21266113	38.54825654	42.18742398	48.80835841	
ENSG00000198833	1103.741439	1153.127219	1258.426562	
640.9209057	1085.665534	907.6243555	1171.765073	
878.0702652	0.415982063	0.034728532	0.147706495	UBE2J1
6	89326625	89352848	- 4290	
protein_coding	ubiquitin conjugating enzyme E2 J1 [Source:HGNC Symbol;Acc:HGNC:17598]			-
925	12.16146223	12.78489148	13.89708489	1188
7.190591268	12.06751219	10.06538697		
ENSG00000061676	6988.048521	5336.457718	5155.931048	
4725.535956	5023.487746	4349.728398	5826.812429	
4699.584033	0.309931332	0.034735713	0.147706495	NCKAP1
2	182909115	183038858	- 22520	
protein_coding	NCK associated protein 1 [Source:HGNC Symbol;Acc:HGNC:7666]			-
4433	14.6677421	11.27098317	10.84655545	5497
10.09950628	10.63692136	9.189150849		
ENSG00000077380	2327.806892	2077.297507	2162.890097	
1750.979841	1825.892035	1834.873021	2189.331498	
1803.914966	0.279083856	0.034749188	0.147722702	
DYNC1I2	2	171687409	171748420	+ 4695
protein_coding	dynein cytoplasmic 1 intermediate chain 2 [Source:HGNC Symbol;Acc:HGNC:2964]			-
1870	23.43619444	21.04457783	21.8248859	1998
17.94994024	18.54464333	18.5931103		
ENSG00000232859	5.784808379	50.05536161	12.71137941	

65.29758443	86.81668835	43.17348286	22.85051646		
65.09591855	-1.500160664	0.034772179	0.147779344	LYRM9	
17	27878314	27894752	-	5380	
protein_coding	LYR motif containing 9 [Source:HGNC				
Symbol;Acc:HGNC:27314]	-	5	54	13	65
44	0.050825591	0.442532776	0.111934389	95	
0.584160648	0.769484591	0.381782868			
ENSG00000285618	2.313923351	0	1.955596832	9.041203998	
22.84649694	5.887293117	1.423173395	12.59166468		
-3.175809449	0.034778298	1	AC074132.1	5	
91132303	91142470	-	687	antisense	
"novel transcript, antisense to	ADGRV1"	-	2	0	
2	9	25	6	0.159209131	0
0.134857689	0.633413024	1.585776105	0.407699848		
ENSG00000163431	10.41265508	1.853902282	5.866790497	0	
0	0	6.044449287	0	5.084492982	
0.034800397	1	LMOD1	1	201896452	201946588
-	3971	protein_coding	leiomod	1	[Source:HGNC
Symbol;Acc:HGNC:6647]	-	9	2	6	0
0	0.123947375	0.022205679	0.069992873	0	
0	0				
ENSG00000213414	0	0	27.12361199	0	0
0	9.041203998	-5.594847411	0.03486326	1	
AC008677.1	5	157986146	157987706	-	
1561	processed_pseudogene	cell	division	cycle	37
(S. cerevisiae)	(CDC37)	pseudogene	-	0	0
27	0	0	0	0	0.836299963
0	0				
ENSG00000221990	57.84808379	127.9192574	91.91305112		
120.5493866	171.805657	194.2806729	92.56013078		
162.2119055	-0.80555819	0.034876504	0.148142754	EXOC3-	
AS1	5	441498	443160	-	1663
antisense RNA 1	[Source:HGNC	Symbol;Acc:HGNC:25175]	-	50	
138	94	120	188	198	1.644267481
3.658649409	2.618412467	3.488913589	4.926337909		
5.55800556					
ENSG00000176946	1167.374331	1426.577806	1319.050063		
1449.606374	1705.262531	1750.488487	1304.334067		
1635.119131	-0.32567573	0.03487707	0.148142754	THAP4	
2	241584405	241637449	-	3147	
protein_coding	THAP domain containing 4 [Source:HGNC				
Symbol;Acc:HGNC:23187]	THAP	1009	1539	1349	1443
1784	17.5343284	21.56134431	19.85718411	1866	
22.17026094	25.83886865	26.4633087			
ENSG00000242641	8.09873173	11.12341369	0.977798416		
30.13734666	33.81281546	17.66187935	6.733314612		
27.20401383	-2.014992873	0.03488988	0.148155998		
LINC00971	3	84638406	84881679	-	8031
lincRNA	long intergenic non-protein coding RNA 971				
[Source:HGNC	Symbol;Acc:HGNC:48737]	-	7	12	1

0.005768101	30	37	18	0.047667582	0.065878785	
ENSG00000101442	391.0530464	0.180614597	0.200766245	0.104628239		
532.4264577	597.6643598	397.6620394	405.7863427			
531.7289912	-0.417456629	465.0961562	398.1671428			
	20	38748442	38772520	+	2565	
protein_coding	ARP5 actin related protein 5 homolog [Source:HGNC					
Symbol;Acc:HGNC:14671]	-	338	429	415	530	654
	474	7.206494235	7.374012691	7.494854101		
9.990557338	11.11089329	8.626547303				
ENSG00000275835	816.8149431	741.5609127	807.6614917			
630.8751234	523.6417098	669.1889843	788.6791158			
607.9019392	0.375698936	0.034915842	0.14818392			
TUBGCP5	15	22983192	23039673	-	6478	
protein_coding	tubulin gamma complex associated protein 5					
[Source:HGNC	Symbol;Acc:HGNC:18600]	-	706	800		826
	628	573	682	5.96016757	5.444813409	
5.90665438	4.687269414	3.854537508	4.914614604			
ENSG00000119787	992.6731178	918.6085806	939.6642779			
661.0124701	794.1442335	784.9724156	950.3153254			
746.7097064	0.34737932	0.034936226	0.148215589			ATL2
	2	38294880	38377285	-	4884	
protein_coding	atlastin GTPase 2 [Source:HGNC					
Symbol;Acc:HGNC:24047]	-	858	991	961	658	869
	800					
9.607410454	8.946063102	9.114863898	6.514055506			
7.753587975	7.646459059					
ENSG00000125503	1132.665481	1951.232151	1979.063994			
2184.957633	1997.697692	2611.995713	1687.653875			
2264.883679	-0.423714293	0.034942695	0.148215589			
PPP1R12C	19	55090913	55117559	-	7726	
protein_coding	protein phosphatase 1 regulatory subunit 12C					
[Source:HGNC	Symbol;Acc:HGNC:14947]	-	979	2105		2024
	2175	2186	2662	6.929831914	12.0124434	
12.13551636	13.61149331	12.32974377	16.08419698			
ENSG00000114127	1323.564157	916.7546783	1247.670779			
820.7404074	950.4142725	907.6243555	1162.663205			
892.9263451	0.380046523	0.034953837	0.148221723			XRN1
	3	142306607	142448062	-	11982	
protein_coding	5'-3' exoribonuclease 1 [Source:HGNC					
Symbol;Acc:HGNC:30654]	-	1144	989	1276	817	1040
	925	5.221453587	3.63915819	4.933144251		
3.296810296	3.782357908	3.603781515				
ENSG00000102290	473.1973254	413.4202088	615.0352038			
425.9411661	344.5251738	295.3458714	500.5509127			
355.2707371	0.494843665	0.034982578	0.148302459			
PCDH11X	X	91779261	92623230	+	11630	
protein_coding	protocadherin 11 X-linked [Source:HGNC					
Symbol;Acc:HGNC:8656]	-	409	446	629	424	377
	301	1.923261359	1.690787786	2.505378733		
1.762736342	1.412603354	1.208183267				

ENSG00000260563	93.71389573	86.2064561	73.33488121				
134.6134818	132.5096822	149.144759	84.41841101				
138.7559743	-0.718036635	0.035011411	0.148383542				
AC132872.1	17	82293716	82294910	+	1195		
lincRNA	novel transcript	-	81	93	75		
134	145	152	3.70690816	3.431223449			
2.907339936	5.42173279	5.287601227	5.937747405				
ENSG00000231948	8.09873173	4.634755704	4.888992081		0		
0	0	5.874159838	0	5.045285904			
0.035029844	1	HS1BP3-IT1	2	20590775			
20592548	-	600	sense_intronic	HS1BP3 intronic			
transcript 1 [Source:HGNC Symbol;Acc:HGNC:41474]				-	7		
5	5	0	0	0	0.638030592		
0.367411471	0.386030136	0	0	0			
ENSG00000284431	8.09873173	4.634755704	4.888992081		0		
0	0	5.874159838	0	5.045285904			
0.035029844	1	AL022238.4	22	40346529			
40410054	+	4563	protein_coding	novel transcript			
-	7	5	5	0	0		
0.083896199	0.048311831	0.050760044	0	0	0		
ENSG00000243679	68.26073887	120.5036483	118.3136084				
159.7279373	145.3037205	208.9989056	102.3593318				
171.3435212	-0.739451326	0.035030346	0.148422646				
AC018638.5	7	128653969	128654722	+	754		
processed_pseudogene	novel pseudogene			-	59		
130	121	159	159	213	4.27932606		
7.601616652	7.433895987	10.19593352	9.189341179				
13.18725164							
ENSG00000119402	2474.741024	2269.176393	2219.602405				
2875.102871	2720.560855	2793.520584	2321.173274				
2796.39477	-0.268905343	0.035041095	0.14842705		FBXW2		
9	120751978	120793412	-	11263			
protein_coding	F-box and WD repeat domain containing 2 [Source:HGNC Symbol;Acc:HGNC:13608]	-	2139	2448	2270	2862	2977
2847	10.38607401	9.582774915	9.336287759				
12.28617683	11.5181664	11.79992967					
ENSG00000115091	7049.36749	6054.844852	5594.962537				
4471.377666	5862.411114	4751.045545	6233.058293				
5028.278108	0.309667477	0.03505737	0.148435314		ACTR3		
2	113889960	113962596	+	12049			
protein_coding	ARP3 actin related protein 3 homolog [Source:HGNC Symbol;Acc:HGNC:170]	-	6093	6532	5722	4451	6415
4842	27.65507792	23.90171863	21.99881588				
17.86108373	23.20086912	18.7594377					
ENSG00000165650	1397.609704	1265.288307	1375.762372				
1842.396459	1774.715882	1437.480736	1346.220128				
1684.864359	-0.323948465	0.035062466	0.148435314		PDZD8		
10	117277274	117375467	-	9881			
protein_coding	PDZ domain containing 8 [Source:HGNC Symbol;Acc:HGNC:26974]	-	1208	1365	1407	1834	1942

1465	6.685913411	6.090678983	6.596227928	
8.974280682	8.564596834	6.921221708		
ENSG00000133393	1021.59716	1053.943447	1004.198973	
761.4702923	931.2232151	716.2873292	1026.57986	
802.9936122	0.354086117	0.035102077	0.148561864	FOPNL
16	15865720	15888625	- 2391	
protein_coding	FGFR10P N-terminal like [Source:HGNC			
Symbol;Acc:HGNC:26435]	-	883 1137	1027 758	1019
730	20.19648727	20.96596452	19.89726221	
15.32818897	18.57176611	14.25244323		
ENSG00000141098	778.6352078	787.9084697	1089.267436	
1198.461819	1175.223802	1075.412209	885.270371	
1149.699277	-0.3767048	0.03512547	0.148619725	GFOD2
16	67674531	67719421	- 8674	
protein_coding	glucose-fructose oxidoreductase domain containing 2			
[Source:HGNC	Symbol;Acc:HGNC:28159]			
1193	1286 1096	4.24316929	4.320494592	1114
5.949332323	6.650009142	6.460708529	5.898440083	
ENSG00000108433	1332.81985	1256.945747	1281.893724	
1643.489971	1741.816926	1417.856426	1290.553107	
1601.054441	-0.311303832	0.035153157	0.148695715	GOSR2
17	46923075	46975524	+ 14366	
protein_coding	golgi SNAP receptor complex member 2 [Source:HGNC			
Symbol;Acc:HGNC:4431]	-	1152 1356	1311 1636	1906
1445	4.385421382	4.16157557	4.227360503	
5.506157802	5.78156792	4.695458655		
ENSG00000199691	0	2.780853423	5.866790497	24.10987733
12.79403828	15.69944831	2.882547973	17.53445464	
-2.581091737	0.035164816	1	RN7SKP173	20
38761528	38761842	+	315 misc_RNA	
"RNA, 7SK small nuclear pseudogene 173 [Source:HGNC	Symbol;Acc:HGNC:45897]"			
16	0	0.419898825	0.882354596	3.683849714
1.936761216	2.371130542			
ENSG0000010404	8655.230296	6940.083192	5275.222455	
8682.569573	10380.53435	7821.268906	6956.845314	
8961.457609	-0.365468055	0.035207338	0.148883701	IDS
X	149476990	149521096	- 9292	
protein_coding	iduronate 2-sulfatase [Source:HGNC			
Symbol;Acc:HGNC:5389]	-	7481 7487	5395 8643	11359
7971	44.02964322	35.52487758	26.89581468	
44.97348355	53.27083401	40.0451241		
ENSG00000127415	387.5821614	380.0499677	415.5643269	
580.6462123	466.0685375	531.8188116	394.3988187	
526.1778538	-0.415509791	0.03523779	0.148971267	IDUA
4	986997 1004506	+	4000	
protein_coding	"iduronidase, alpha-L- [Source:HGNC			
Symbol;Acc:HGNC:5391]"	-	335 410	425 578	510
542	4.580148176	4.519161099	4.921884233	
6.986651223	5.556083738	6.325361211		

ENSG00000105711	94.87085741	152.0199871	130.0471893	
40.18312888	98.69686676	62.79779325	125.6460113	
67.22592963	0.901721659	0.035254888	0.14900234	SCN1B
19	35030466	35040449	+ 7993	
protein_coding	sodium voltage-gated channel beta subunit 1			
[Source:HGNC Symbol;Acc:HGNC:10586]	-	82	164	133
40	108 64	0.561046364	0.904623766	
0.770804575	0.241964356	0.588806425	0.373780118	
ENSG0000020129	1575.781802	2332.20907	2208.846622	
2856.015885	2195.091426	2854.355946	2038.945832	
2635.154419	-0.369447544	0.035279379	0.149061024	NCDN
1	35557473	35567274	+ 4917	
protein_coding	neurochondrin [Source:HGNC Symbol;Acc:HGNC:17597]			
-	1362 2516	2259 2843	2402 2909	
15.14856909	22.56027486	21.28229596	27.95618256	
21.28782996	27.6178298			
ENSG00000269896	24.29619519	29.66243651	36.1785414	
72.32963199	67.62563093	52.00442253	30.04572437	
63.98656182	-1.08802728	0.035292492	0.149061024	
AL513477.1	1 2350414	2352820 -	2407	
transcribed_processed_pseudogene	small nuclear			
ribonucleoprotein polypeptide N pseudogene [Source:NCBI				
gene;Acc:100129534]	-	21 32	37 72	74
53	0.477131311	0.586148754	0.712078855	
1.446297457	1.339720575	1.027888045		
ENSG00000139233	821.4427898	988.1299161	842.8622347	
1177.365676	1089.320974	1080.318287	884.1449802	
1115.668312	-0.334933277	0.035317853	0.149061024	LLPH
12	66116555	66130768	- 7993	
protein_coding	"LLP homolog, long-term synaptic facilitation factor			
[Source:HGNC Symbol;Acc:HGNC:28229]"	-	710	1066	862
1172	1192 1101	4.857840469	5.880054477	
4.995740931	7.089555639	6.498678319	6.430186093	
ENSG00000138336	163.1315963	126.0653552	141.7807703	
115.5264955	63.97019142	71.62873292	143.6592406	
83.70847329	0.779560318	0.035327173	0.149061024	TET1
10	68560656	68694482	+ 9288	
protein_coding	tet methylcytosine dioxygenase 1 [Source:HGNC			
Symbol;Acc:HGNC:29484]	-	141 136	145 115	70
73	0.830216994	0.64558088	0.723183071	
0.598655325	0.328423656	0.366899136		
ENSG00000186020	426.9188583	482.0145932	341.2516472	
591.6965728	532.7803085	561.2552771	416.7283663	
561.9107195	-0.430958407	0.035333848	0.149061024	ZNF529
19	36534774	36605276	- 8173	
protein_coding	zinc finger protein 529 [Source:HGNC			
Symbol;Acc:HGNC:29328]	zf-C2H2	369 520	349 589	583
572	2.46910512	2.805148149	1.978091532	
3.484456221	3.108462651	3.267085993		
ENSG00000007255	160.8176729	380.9769189	204.359869	

332.5153915	425.8587029	406.2232251	248.7181536		
388.1991065	-0.639891212	0.035334637	0.149061024		
TRAPPC6A	19	45162928	45178237	-	933
protein_coding	trafficking	protein	particle	complex	6A
[Source:HGNC Symbol;Acc:HGNC:23069]	-	139	411		209
331	466	414	8.147565663	19.42200833	
10.37688726	17.15329539	21.76521045	20.71403631		
ENSG00000164615	657.1542318	788.8354209	600.3682275		
937.2714811	1007.987445	750.6298724	682.1192934		
898.6295994	-0.397458602	0.035337028	0.149061024		CAMLG
5	134738501	134752160	+	2221	
protein_coding	calcium	modulating	ligand	[Source:HGNC	
Symbol;Acc:HGNC:1471]	-	568	851	614	933
765	13.98603111	16.89331809	12.80625863		1103
20.31114009	21.64140994	16.07899545			
ENSG00000229051	8.09873173	2.780853423	6.844588913		0
0	0	5.908058022	0	5.053240353	
0.035377642	1	LINC01788	1	70706453	
70786468	+	2086	lincRNA	long	intergenic
coding RNA	1788	[Source:HGNC Symbol;Acc:HGNC:52577]	-		7
3	7	0	0	0	0.183517907
0.063407541	0.155448377	0	0	0	
ENSG00000176731	439.6454368	490.3571535	429.2535047		
351.6023777	330.8172756	330.6696301	453.085365		
337.6964278	0.424515157	0.035386997	0.149230627		
C8orf59	8	85214076	85220421	-	2514
protein_coding	chromosome	8	open	reading	frame
Symbol;Acc:HGNC:32235]	-	380	529	439	350
337	8.266335658	9.277358874	8.089127908		362
6.731378131	6.274828998	6.257641277			
ENSG00000280020	38.1797353	34.29719221	26.40055724		
67.30674088	62.14247166	73.59116396	32.95916158		
67.6801255	-1.039871765	0.035408461	0.149279961		
AC116407.3	17	32178946	32180074	-	1129
TEC	TEC	-	33	37	27
75	1.598507619	1.444913139	1.107827848		68
2.869340427	2.624663118	3.101082765			
ENSG00000266242	0	4.634755704	16.62257307	0	0
0	7.08577626	0	5.320772943	0.035485454	
1	GRAMD4P7	18	14485806	14487501	
+	1232	processed_pseudogene	GRAM	domain	containing
4	pseudogene	7	[Source:HGNC Symbol;Acc:HGNC:49142]	-	0
5	17	0	0	0	0.178934158
0.639205745	0	0	0		
ENSG00000213190	2129.966445	1630.507057	1877.372959		
1588.238169	1554.475651	1353.096201	1879.282154		
1498.603341	0.32608933	0.035529105	0.14974729		MLLT11
1	151057758	151068497	+	4075	
protein_coding	"MLLT11,	transcription	factor	7	cofactor
Symbol;Acc:HGNC:16997]"	-	1841	1759	1920	1581
					1701

1379	24.70704966	19.03146341	21.82609652		
18.75881815	18.19010887	15.79729357			
ENSG00000161677	271.8859938	704.482867	489.8770065		
650.9666879	644.2712136	916.4552952	488.7486224		
737.2310655	-0.591216484	0.035555554	0.149817463	JOSD2	
19	50505998	50511353	-	1514	
protein_coding	Josephin domain containing 2	[Source:HGNC			
Symbol;Acc:HGNC:28853]	-	235	760	501	648
934	8.488612326	22.13205165	15.32901702		705
20.69428125	20.29185917	28.79831229			
ENSG00000251361	48.59239038	21.31987624	86.04626062		
19.08698622	13.70789816	25.51160351	51.98617575		
19.43549596	1.420290788	0.035584933	0.149899939		
AC012625.1	5	93019663	93068669	-	625
lincRNA	novel transcript	-	42	23	88
19	15	26	3.675056208	1.622489058	
6.522365177	1.469856036	1.045851056	1.941955914		
ENSG00000154451	89.08604903	146.4582803	126.1359957		
63.28842799	90.47212786	41.21105182	120.5601083		
64.99053589	0.891751743	0.035595223	0.149901974	GBP5	
1	89258950	89272804	-	8143	
protein_coding	guanylate binding protein 5	[Source:HGNC			
Symbol;Acc:HGNC:19895]	-	77	158	129	63
42	0.517131512	0.855473597	0.733850731		99
0.374073834	0.529796833	0.240774723			
ENSG00000161956	447.7441685	824.9865154	855.5736141		
931.2440118	962.2944509	1065.600054	709.434766		
986.3795056	-0.47410827	0.03561194	0.149931073	SENP3	
17	7561875	7571969	+	3668	protein_coding
specific	peptidase 3	[Source:HGNC		Symbol;Acc:HGNC:17862]	-
387	890	875	927	1053	1086
10.69780402	11.05048099	12.21944901	12.51000957		
13.82122491					
ENSG00000187140	26.61011854	1.853902282	9.777984162	0	
1.827719755	1.962431039	12.74733499	1.263383598		
3.319223942	0.035657934	1	FOXD3	1	
63323041	63325126	+	2086	protein_coding	
forkhead	box D3	[Source:HGNC		Symbol;Acc:HGNC:3804]	Fork
2	10	0	2	2	0.60298741
0.042271694	0.22206911	0	0.041780563	0.044757078	
ENSG00000273669	27.76708022	20.3929251	4.888992081		
87.39830532	36.5543951	30.4176811	17.68299913		
51.45679384	-1.546297523	0.035658475	0.150044316		
AC015819.1	18	75073543	75074205	+	663
lincRNA	novel transcript	-	24	22	5
87	40	31	1.979668287	1.462995905	
0.349348539	6.344639354	2.629087623	2.182700768		
ENSG00000246922	45.12150535	61.1787753	51.82331606		
129.5905906	62.14247166	110.8773537	52.70786557		
100.8701387	-0.933186481	0.035667904	0.150044316	UBAP1L	

15	65092770	65115197	-	8536	
protein_coding	ubiquitin associated protein 1 like				[Source:HGNC
Symbol;Acc:HGNC:40028]	-	39	66	53	129 68
113	0.249864705	0.340897242	0.287623203		
0.730695647	0.34714675	0.617973814			
ENSG00000185495	143.4632478	136.2618177	125.1581973		
65.29758443	84.07510872	93.21547435	134.9610876		
80.8627225	0.738090234	0.035668283	0.150044316		
AC138393.1	1	223992743	224010612	+	4349
	transcribed_unprocessed_pseudogene				septin 7 (SEPT7)
pseudogene	-	124	147	128	65 92 95
1.559290347	1.490259452	1.363399146	0.722645272		
0.921843117	1.019718347				
ENSG00000108691	85.615164	107.5263323	123.2026004		
36.16481599	84.07510872	43.17348286	105.4480323		
54.47113586	0.951476725	0.035726427	0.150247562		CCL2
17	34255218	34257203	+	1986	
protein_coding	C-C motif chemokine ligand 2				[Source:HGNC
Symbol;Acc:HGNC:10618]	-	74	116	126	36 92
44	2.037732576	2.575210314	2.938960552		
0.876444607	2.018678609	1.034235565			
ENSG00000136158	874.6630268	748.0495707	760.7271678		
860.9235363	1111.253611	1096.017735	794.4799218		
1022.731627	-0.365130259	0.035814305	0.150535561		SPRY2
13	80335976	80340951	-	3038	
protein_coding	sprouty RTK signaling antagonist 2				[Source:HGNC
Symbol;Acc:HGNC:11270]	-	756	807	778	857 1216
1117	13.60907911	11.71169417	11.86299325		
13.63936868	17.44232616	17.16372073			
ENSG00000106868	49.74935206	71.37523785	126.1359957		
68.3113191	10.96631853	14.71823279	82.4201952		
31.33195681	1.399890441	0.035814603	0.150535561		SUSD1
9	112040785	112175408	-	4183	
protein_coding	sushi domain containing 1				[Source:HGNC
Symbol;Acc:HGNC:25413]	-	43	77	129	68 12
15	0.562179887	0.811590245	1.428579131		
0.785999491	0.125012079	0.167397678			
ENSG00000102763	871.1921418	739.7070104	840.9066379		
640.9209057	604.9752388	669.1889843	817.2685967		
638.3617096	0.356092387	0.035880911	0.15077281		VWA8
13	41566837	41961120	-	7633	
protein_coding	von Willebrand factor A domain containing 8				[Source:HGNC
Symbol;Acc:HGNC:29071]	-		753	798	860
638	662	682	5.395036988	4.60937017	
5.219220494	4.041351571	3.779386651	4.170951579		
ENSG00000250519	13.88354011	0.926951141	3.911193665		0
0	0	6.240561638	0	5.128578586	
0.035892316	1	AP002784.1	11	94238150	
94279206	+	723	lincRNA novel transcript		-
12	1	4	0	0	0.907690231

	0.060981157	0.256285567	0	0	0	
ENSG00000179362	27.76708022	11.12341369	25.42275882	0		
	7.310879019	4.906077597	21.43775091	4.072318872		
	2.385353275	0.035896781	0.150798046	HMG2P46		
	15	45511136	45586290	+	3091	
transcribed_processed_pseudogene						high mobility group
nucleosomal binding domain 2 pseudogene						46 [Source:HGNC
Symbol;Acc:HGNC:26817]	-	24	12	26	0	8
	5	0.424626359	0.171165487	0.3896519		0
	0.112784542	0.075512185				
ENSG00000116977	780.9491311	628.4728735	523.1221526			
806.6763123	1107.598171	725.1182689	644.1813857			
879.7975842	-0.450897326	0.035914087	0.150829298			LGALS8
	1	236518000	236552981	+	9710	
protein_coding	galectin 8 [Source:HGNC					Symbol;Acc:HGNC:6569]
	675	678	535	803	1212	739
	3.078537314	2.552331074	3.998503973	5.439287163		
	3.552803961					
ENSG00000055950	911.6858005	1090.094542	977.7984162			
1131.155078	1357.081918	1265.76802	993.1929194			
1251.335005	-0.332972187	0.03594848	0.150932275			MRPL43
	10	100969458	100987515	-	3573	
protein_coding	mitochondrial ribosomal protein					L43 [Source:HGNC
Symbol;Acc:HGNC:14517]	-	788	1176	1000	1126	1485
	1290	12.06112765	14.51136492	12.96490801		
15.23724992	18.11140054	16.85398992				
ENSG00000172663	496.3365589	507.9692252	304.0953074			
566.5821172	664.3761309	590.6917427	436.1336972			
607.2166636	-0.4780811	0.035958651	0.150933526			
TMEM134	11	67461710	67469272	-	5892	
protein_coding	transmembrane protein					134 [Source:HGNC
Symbol;Acc:HGNC:26142]	-	429	548	311	564	727
	602	3.981890076	4.10064127	2.445119598		
4.628258232	5.376879088	4.769576171				
ENSG00000082641	3569.22677	4032.237463	4762.856085			
4874.213533	4958.603695	5308.37596	4121.440106			
5047.064396	-0.292103144	0.036006105	0.151072833			NFE2L1
	17	48048329	48061487	+	5825	
protein_coding	"nuclear factor, erythroid 2 like 1 [Source:HGNC					Symbol;Acc:HGNC:7781]"
TF_bZIP		3085	4350	4871	4852	5426
	5410	28.96369406	32.92511384	38.73688156		
40.27412178	40.59218764	43.35581667				
ENSG00000103044	15.04050178	15.75816939	37.15633981			
79.36167954	21.93263706	78.49724156	22.65167033			
59.93051939	-1.399597097	0.036011605	0.151072833			HAS3
	16	69105564	69118719	+	5289	
protein_coding	hyaluronan synthase 3 [Source:HGNC					Symbol;Acc:HGNC:4820]
	-	13	17	38	79	24
	80	0.134420188	0.141712876	0.332822352		
0.722195438	0.197740793	0.706093894				

ENSG00000168785	1440.417286	1123.464783	1271.137941		
888.0471483	925.7400558	1165.684037	1278.340003		
993.1570804	0.363722433	0.036053083	0.151205344	TSPAN5	
4	98470367	98658629	- 7430		
protein_coding	tetraspanin 5 [Source:HGNC Symbol;Acc:HGNC:17753]				
-	1245 1212	1300 884	1013 1188		
9.163792578	7.191968293	8.105074187	5.752606501		
5.94126918	7.464034923				
ENSG00000146729	2548.786572	1986.456295	1960.485824		
1640.476237	1966.626456	1512.053116	2165.242897		
1706.385269	0.34300837	0.036082465	0.151287064		
NIPSNAP2	7 55951793	56000181	+	5651	
protein_coding	nipsnap homolog 2 [Source:HGNC				
Symbol;Acc:HGNC:4179]	-	2203 2143	2005 1633	2152	
1541	21.31983811	16.71979013	16.43582564		
13.97211315	16.59493507	12.72985237			
ENSG00000165943	413.0353182	476.4528864	323.6512757		
487.2204377	785.9194946	467.0585873	404.3798268		
580.0661732	-0.520886069	0.036109375	0.151358382	MOAP1	
14	93182196	93184928	- 2537		
protein_coding	modulator of apoptosis 1 [Source:HGNC				
Symbol;Acc:HGNC:16658]	-	357 514	331 485	860	
476	7.695599569	8.932573733	6.043798581		
9.24320293	14.77190758	8.758556207			
ENSG00000170903	1210.181913	1105.852711	941.6198748		
1336.089035	1561.786531	1245.162494	1085.884833		
1381.012687	-0.347457837	0.036155931	0.151511986		
MSANTD4 11	105995623	106022403	- 5105		
protein_coding	Myb/SANT DNA binding domain containing 4 with coiled-				
coils [Source:HGNC Symbol;Acc:HGNC:29383]	-		1046 1193		
963	1330 1709	1269 11.2054848	10.3033548		
	8.738421647	12.59670942	14.58830767	11.60411199	
ENSG00000084073	3053.221862	2423.977233	2738.813364		
2280.392564	2227.990381	2214.603427	2738.67082		
2240.995458	0.289009902	0.036193259	0.151626841		
ZMPSTE24	1 40258107	40294184	+	3572	
protein_coding	zinc metalloproteinase STE24 [Source:HGNC				
Symbol;Acc:HGNC:12877]	-	2639 2615	2801 2270	2438	
2257	40.40384094	32.2770772	36.32487382		
30.72667901	29.74273138	29.49620512			
ENSG00000234756	5.784808379	12.97731597	10.75578258		
9.041203998	49.34843338	44.15469838	9.839302309		
34.18144525	-1.790270133	0.036235928	0.151673676		
AC024597.1	10 62289521	62304033	+	706	
lincRNA	uncharacterized LOC105378325 [Source:NCBI				
gene;Acc:105378325]	-	5 14	11 9	54	
45	0.387311165	0.874293587	0.721756062		
0.616366498	3.333094727	2.975458166			
ENSG00000134278	812.1870964	835.1829779	765.6161599		
1109.054357	1075.613076	885.0563986	804.3287447		

1023.241277	-0.347318372	0.036240559	0.151673676	SPIRE1
18	12446512	12658134	- 6532	
protein_coding	spire type actin nucleation factor 1 [Source:HGNC			
Symbol;Acc:HGNC:30622]	-	702 901	783 1104	1177
902	5.877405416	6.081526071	5.552876848	
8.17192014	7.852155373	6.446238911		
ENSG00000130811	3843.426687	5721.142441	5460.026356	
6167.105705	5643.998603	7276.694292	5008.198495	
6362.599533	-0.345058579	0.036243194	0.151673676	EIF3G
19	10115017	10119918	- 3486	
protein_coding	eukaryotic translation initiation factor 3 subunit G			
[Source:HGNC Symbol;Acc:HGNC:3274]	-		3322 6172	5584
6139	6176 7416	52.11550592	78.06070919	
74.20283233	85.14741488	77.20376894	99.30894637	
ENSG00000276337	23.13923351	5.561706845	40.08973506	
6.027469332	4.569299387	4.906077597	22.93022514	
5.167615439	2.149753659	0.036244694	0.151673676	
AC105429.1	16 87470370	87474370	-	4001
sense_intronic	"novel transcript, sense intronic to ZCCHC14"			
-	20 6	41 6	5 5	
0.273373339	0.066117535	0.474698393	0.072507664	
0.054457795	0.058337456			
ENSG00000185485	163.1315963	198.3675441	242.4940072	
118.5402302	116.9740643	152.0884055	201.3310492	
129.2009	0.641381323	0.036254047	0.151673676	SDHAP1
3	195959748	195990318	- 3353	
transcribed_unprocessed_pseudogene	succinate dehydrogenase			
complex flavoprotein subunit A pseudogene 1 [Source:HGNC				
Symbol;Acc:HGNC:32455]	-	141 214	248 118	128
155	2.299748117	2.813935755	3.426262107	
1.701569414	1.663546764	2.157963927		
ENSG00000126524	2254.918306	2117.156406	1708.213833	
1540.018414	1676.932875	1661.197874	2026.762848	
1626.049721	0.317490158	0.036291883	0.151746468	SBDS
7	66987677	66995601	- 1732	
protein_coding	"SBDS, ribosome maturation factor [Source:HGNC			
Symbol;Acc:HGNC:19440]"	-	1949 2284	1747 1533	1835
1693	61.54016611	58.14095618	46.72480237	
42.79524171	46.16860779	45.63048725		
ENSG00000100632	2179.715797	2729.87111	2860.060367	
2051.348729	2131.121234	2109.613367	2589.882425	
2097.36111	0.304665883	0.036297003	0.151746468	ERH
14	69380123	69398627	- 1446	
protein_coding	"ERH, mRNA splicing and mitosis factor [Source:HGNC			
Symbol;Acc:HGNC:3447]"	-	1884 2945	2925 2042	2332
2150	71.25368315	89.79475382	93.70441059	
68.2792373	70.27791216	69.40906639		
ENSG00000187514	17571.93393	19109.09777	20954.22006	
15603.10894	16621.28345	16325.46381	19211.75059	
16183.2854	0.24751383	0.036301225	0.151746468	PTMA

2	231706895	231713541	+	3378	
protein_coding	prothymosin alpha [Source:HGNC Symbol;Acc:HGNC:9623]				
-	15188	20615	21430	15532	18188 16638
245.8870497	269.0652748	293.8765831	222.3150956		
234.6301931	229.9256964				
ENSG00000168874	24.29619519	31.51633879	26.40055724		
8.036625776	0	10.79337071	27.40436374	6.276665497	
	2.134138582	0.036376881	0.151985064	ATOH8	2
	85751344	85788066	+	6076	protein_coding
	atonal bHLH transcription factor 8 [Source:HGNC				
Symbol;Acc:HGNC:24126]	bHLH	21	34	27	8 0
11	0.189014988	0.246714747	0.205848855		
0.063660997	0	0.084512501			
ENSG00000106636	4450.831566	4482.735717	4526.228868		
6019.432706	4950.378956	5206.329546	4486.598717		
5392.04707	-0.265134616	0.036378187	0.151985064	YKT6	
7	44200968	44214294	+	3707	
protein_coding	YKT6 v-SNARE homolog [Source:HGNC				
Symbol;Acc:HGNC:16959]	-	3847	4836	4629	5992 5417
5306	56.75371736	57.51719049	57.84516318		
78.15386046	63.67879657	66.81757279			
ENSG00000132953	1324.721119	1069.701617	1096.112025		
1046.770507	804.1966921	864.4508727	1163.511587		
905.1393574	0.36199264	0.036618282	0.15290855	XP04	
13	20777329	20903048	-	10500	
protein_coding	expartin 4 [Source:HGNC Symbol;Acc:HGNC:17796]				
1145	1154	1121	1042	880	881 5.963632878
4.845632435	4.945597513	4.798214252	3.652178293		
3.916811265					
ENSG00000102858	1050.521202	1745.448998	1720.925212		
2195.003415	1841.427653	1923.182418	1505.631804		
1986.537829	-0.399067113	0.036628923	0.15290855	MGRN1	
16	4616493	4690974	+	10219	protein_coding
mahogunin ring finger 1	[Source:HGNC Symbol;Acc:HGNC:20254]				
908	1883	1760	2185	2015	1960 4.859282658
8.124111566	7.978233165	10.33818403	8.592612938		
8.953517938					
ENSG00000260293	57.84808379	12.05036483	50.84551764		
2.009156444	17.36333767	14.71823279	40.24798875		
11.36357564	1.817830871	0.036629235	0.15290855		
AC106820.4	16	2476558	2482173	+	5616 sense_intronic
	"novel transcript, intronic to TBC1D24"				
52	2	19	15	0.486897582	0.102058742
0.428922373	0.017218849	0.14742974	0.124683848		
ENSG00000285095	8.09873173	19.46597396	4.888992081		
21.09614266	72.19493032	18.64309487	10.81789926		
37.31138928	-1.781321725	0.036684547	0.153089669		
AC025887.2	18	32470288	32745567	+	5012
	antisense novel transcript				
5	21	79	19	0.076380358	0.184732025

	0.046212706	0.202586009	0.686870124	0.176965487	
ENSG00000280401	12.72657843	24.10072966	0.977798416	0	
0	2.943646558	12.60170217	0.981215519		
3.692142147	0.036687464	1	AC022532.1	10	
70434829	70436556	+	1728	TEC	TEC -
11	26	1	0	0	3
	0.663381824	0.026807648	0	0	0.348131771
					0.081044501
ENSG00000187535	357.5011578	272.5236354	272.8057581		
395.8038195	406.6676454	440.5657682	300.9435171		
414.3457444	-0.463039158	0.036692651	0.153089669		IFT140
16	1510427	1612110	-	8168	protein_coding
intraflagellar transport 140	[Source:HGNC Symbol;Acc:HGNC:29077]				
-	309	294	279	394	445 449
2.068890298	1.586958462	1.582307658	2.332285484		
2.374121165	2.566118146				
ENSG00000119431	61.31896881	79.71779811	56.71230814		
81.37083598	118.8017841	156.9944831	65.91635835		
119.0557011	-0.851812665	0.036716179	0.153146039		HDHD3
9	113373419	113376999	-	2105	
protein_coding	haloacid dehalogenase like hydrolase domain containing				
3	[Source:HGNC Symbol;Acc:HGNC:28171]				
-			53	86	58
81	130	160	1.376950989	1.801276193	
1.276375176	1.86051911	2.691224017	3.548247605		
ENSG00000223901	39.33669697	36.15109449	50.84551764		
11.05036044	25.58807657	9.812155195	42.11110304		
15.48353073	1.439266014	0.036726357	0.153146704		
AP001469.1	21	46220269	46225364	+	1117
antisense	novel transcript				
52	11	28	10	1.6646405	1.539378412
2.15651571	0.476146645	1.092354132	0.417919718		
ENSG00000159625	0	0	0.977798416	15.06867333	
11.88017841	0	0.325932805	8.982950579	-4.625345544	
0.036734499	1	DRC7	16	57694793	
57731805	+	5151	protein_coding	dynein regulatory	
complex subunit 7	[Source:HGNC Symbol;Acc:HGNC:25289]				
0	1	15	13	0	0
0.008993131	0.140799439	0.10997916	0		
ENSG00000122729	1907.829803	2030.022998	1848.039007		
1557.096244	1619.359703	1592.512788	1928.630603		
1589.656245	0.278910892	0.036753846	0.153219539		AC01
9	32384603	32454769	+	7555	
protein_coding	aconitase 1 [Source:HGNC Symbol;Acc:HGNC:117]				
1649	2190	1890	1550	1772	1623
12.78037521	11.58856848	9.919697897	10.22086958		
10.02836395					
ENSG00000169375	2131.123407	1615.675838	1909.640307		
1603.306842	1510.610377	1414.912779	1885.479851		
1509.61	0.32032043	0.036769093	0.153241308	SIN3A	15
75369379	75455842	-	12453	protein_coding	
SIN3	transcription regulator family member A [Source:HGNC				

Symbol;Acc:HGNC:19353]	-	1842	1743	1953	1596	1653
1442	8.089288983	6.171025727		7.264917904		
6.196694923	5.784388622	5.405517879				
ENSG00000281183	55.53416043	33.37024107		43.02313031		
16.07325155	0.913859877	22.56795695		43.97584394		
13.18502279	1.741189024	0.036796355		0.153249442		NPTN-
IT1	15	73567012	73569294	-	2283	
sense_intronic	NPTN intronic transcript 1 [Source:HGNC					
Symbol;Acc:HGNC:45091]	-	48	36	44	16	1
23	1.149820477	0.695233271		0.892789802		
0.338856084	0.01908766	0.4702924				
ENSG00000253910	2.313923351	12.05036483		18.57816991		
81.37083598	13.70789816	25.51160351		10.98081936		
40.19677922	-1.860244721	0.036802631		0.153249442		
PCDHGB2	5	141360042	141512979	+	4769	
protein_coding	"protocadherin gamma subfamily B, 2 [Source:HGNC					
Symbol;Acc:HGNC:8709]"	-	2	13	19	81	15
26	0.022934928	0.120184923		0.18455624		
0.821218857	0.137063726	0.254502505				
ENSG00000162813	1520.247642	1336.663545		1199.758657		
939.2806376	1137.755547	1124.472985		1352.223281		
1067.169723	0.340950991	0.036813509		0.153249442		BPNT1
1	220057482	220090462		-	3113	
protein_coding	"3'(2'), 5'-bisphosphate nucleotidase 1 [Source:HGNC					
Symbol;Acc:HGNC:1096]"	-	1314	1442	1227	935	1245
1146	23.08399424	20.42302635		18.2586178		
14.52224324	17.42805125	17.18507899				
ENSG00000174521	15.04050178	13.90426711		29.33395248		
72.32963199	22.84649694	58.87293117		19.42624046		
51.3496867	-1.399089377	0.036816128		0.153249442		TTC9B
19	40216058	40218399		-	2342	
protein_coding	tetratricopeptide repeat domain 9B [Source:HGNC					
Symbol;Acc:HGNC:26395]	-	13	15	30	72	25
60	0.303564634	0.282382856		0.59338535		
1.486438078	0.465170019	1.195942764				
ENSG00000114541	38.1797353	37.07804563		74.31267963		
34.15565955	4.569299387	11.77458623		49.85682019		
16.83318172	1.572107812	0.036821168		0.153249442		FRMD4B
3	69169990	69542583		-	9993	
protein_coding	FERM domain containing 4B [Source:HGNC					
Symbol;Acc:HGNC:24886]	-	33	40	76	34	5
12	0.180597929	0.176481043		0.352306098		
0.164506948	0.021803826	0.056057199				
ENSG00000141985	3082.145904	4320.519267		4708.099374		
5376.502644	4578.437986	5380.985909		4036.921515		
5111.975513	-0.340300182	0.036883304		0.153466269		SH3GL1
19	4360370	4400547	-	3685		protein_coding "SH3
domain containing	GRB2 like 1, endophilin A2 [Source:HGNC					
Symbol;Acc:HGNC:10830]"	-	2664	4661	4815	5352	5010
5484	39.53588284	55.76677998		60.52868726		

70.22307276	59.24597233	69.47139021			
ENSG00000149256	214.03791	202.0753487	220.9824421		
123.5631213	143.4760008	157.9756986	212.3652336		
141.6716069	0.583610869	0.036894867	0.153469469	TENM4	
11	78652831	79440948	- 16330		
protein_coding	teneurin transmembrane protein 4 [Source:HGNC				
Symbol;Acc:HGNC:29945]	-	185 218	226 123	157	
161	0.619555557	0.588578328	0.641098425		
0.364183398	0.418959522	0.460241448			
ENSG00000167315	1541.072952	1356.129519	1294.605103		
973.4362971	1291.284007	1027.332649	1397.269191		
1097.350984	0.347924695	0.036904152	0.153469469	ACAA2	
18	49782167	49813960	- 5072		
protein_coding	acetyl-CoA acyltransferase 2 [Source:HGNC				
Symbol;Acc:HGNC:83]	-	1332 1463	1324 969	1413	
1047	14.36215775	12.71742073	12.09236356		
9.237314894	12.14007905	9.636370127			
ENSG00000133250	365.5998895	501.4805672	491.8326033		
653.9804225	512.6753912	679.982355	452.97102		
615.5460563	-0.44083728	0.036969701	0.153633235	ZNF414	
19	8509678 8514164	- 2758	protein_coding	zinc	
finger protein 414 [Source:HGNC	Symbol;Acc:HGNC:20630]	-		316	
541	503 651	561 693	6.265958779		
8.64842376	8.448433287	11.41268796	8.86394795		
11.72964879					
ENSG00000115840	570.3821061	556.1706845	440.9870857		
359.6390035	372.85483	429.7723975	522.5132921		
387.422077	0.431203661	0.036972789	0.153633235		
SLC25A12	2 171784370	171999859	-	5169	
protein_coding	solute carrier family 25 member 12				
[Source:HGNC	Symbol;Acc:HGNC:10982]	-	493 600	451	
358	408 438	5.21597018	5.117745395		
4.041778092	3.348711326	3.439633964	3.955611348		
ENSG00000105281	4170.846841	5079.692252	5615.496304		
6567.932416	5192.551823	6795.898688	4955.345132		
6185.460976	-0.319669792	0.036973682	0.153633235	SLC1A5	
19	46774883	46788594	- 3332		
protein_coding	solute carrier family 1 member 5 [Source:HGNC				
Symbol;Acc:HGNC:10943]	-	3605 5480	5743 6538	5682	
6926	59.16910349	72.51193987	79.8428957		
94.87267369	74.31129581	97.03390969			
ENSG00000270038	30.08100357	41.71280134	38.13413823		
90.41203998	48.4345735	87.32818123	36.64264771		
75.39159824	-1.037066859	0.036995896	0.153683768		
AL133467.4	14 95644508	95645232	+	725	
lincRNA	novel transcript	-	26 45	39	
90	53 89	1.961236893	2.736581995		
2.491891084	6.002134447	3.185638276	5.730572824		
ENSG00000173674	2759.353597	2683.523553	2434.718056		
1947.877173	2451.886051	1984.01778	2625.865069		

2127.927001	0.303066742	0.037072833	0.153958465	EIF1AX
X	20124518	20141844	- 4427	
protein_coding	eukaryotic translation initiation factor 1A X-linked			
[Source:HGNC Symbol;Acc:HGNC:3250]	-	2385	2895 2490	
1939	2683 2022	29.46276991	28.83188281	
26.0550722	21.17724708	26.41008193	21.3214956	
ENSG00000107140	303.123959	377.2691143	311.9176948	
456.0785128	375.5964096	547.5182599	330.770256	
459.7310608	-0.473763279	0.037092005	0.153958465	TESK1
9	35605305	35610041	+ 3298	
protein_coding	testis associated actin remodelling kinase 1			
[Source:HGNC Symbol;Acc:HGNC:11731]	-	262	407 319	
454	411 558	4.344555532	5.440987346	
4.480665132	6.655894324	5.430624422	7.898226491	
ENSG00000164930	2592.751115	1864.098744	2084.666223	
1799.199596	1539.853893	1839.779099	2180.505361	
1726.277529	0.336635315	0.037092237	0.153958465	FZD6
8	103298433	103332866	+ 4065	
protein_coding	frizzled class receptor 6 [Source:HGNC			
Symbol;Acc:HGNC:4044]	-	2241 2011	2132 1791 1685	
1875	30.14921573	21.81149724	24.29568265	
21.30277853	18.06333569	21.53211834		
ENSG00000116954	1013.498428	855.575903	733.3488121	
951.3355763	1342.46016	1120.548123	867.474381	
1138.11462	-0.392680263	0.037114305	0.154008215	RRAGC
1	38838198	38859823	- 5167	
protein_coding	Ras related GTP binding C [Source:HGNC			
Symbol;Acc:HGNC:19902]	-	876 923	750 947 1469	
1142	9.271721059	7.875845671	6.723962112	
8.861612064	12.38916201	10.31748101		
ENSG00000148180	3185.115493	2060.612386	2286.092697	
1759.016467	1976.678915	2116.481875	2510.606859	
1950.725752	0.363488065	0.037124372	0.154008215	GSN
9	121207794	121332843	+ 11018	
protein_coding	gelsolin [Source:HGNC Symbol;Acc:HGNC:4620]			-
2753	2223 2338	1751 2163	2157 13.66463879	
8.895505912	9.829788976	7.683951138	8.554849017	
9.13888922				
ENSG00000175416	599.306148	1059.505154	992.4653924	
1155.264955	1231.883115	1180.40227	883.7588981	
1189.183447	-0.427080402	0.037138509	0.15402375	CLTB
5	176392455	176416569	- 2039	
protein_coding	clathrin light chain B [Source:HGNC			
Symbol;Acc:HGNC:2091]	-	518 1143	1015 1150 1348	
1203	13.89335864	24.71513361	23.05957359	
27.26979236	28.80920435	27.54193426		
ENSG00000073536	1235.63507	1464.582803	1515.587545	
1887.602479	1716.22885	1633.72384	1405.268472	
1745.851723	-0.312535976	0.037148268	0.15402375	NLE1
17	35128753	35142315	- 5463	

protein_coding notchless homolog 1 [Source:HGNC						
Symbol;Acc:HGNC:19889]	-	1068	1580	1550	1879	1878
	1665	10.6914046	12.75145799	13.14325559		
16.63017411		14.98038535	14.22751569			
ENSG00000214389		156.1898262	129.7731597	118.3136084		
179.8195017		222.0679502	212.9237677	134.7588648		
204.9370732		-0.606854879	0.037159783	0.15402972		
RPS3AP26	7	98385801	98386584	-		784
processed_pseudogene ribosomal protein S3a pseudogene 26						
[Source:HGNC Symbol;Acc:HGNC:36513]	-			135	140	121
	179	243	217	9.416996707	7.873102961	
7.149435681		11.03921482	13.50668616	12.92080901		
ENSG00000162889		3327.421779	3369.467397	3324.514615		
3839.497965		4278.691946	3839.496328	3340.46793		
3985.895413		-0.254903719	0.037183959	0.15408815		
MAPKAPK2	1	206684944	206734283	+		4195
protein_coding mitogen-activated protein kinase-activated						
protein kinase 2 [Source:HGNC Symbol;Acc:HGNC:6887]	-					2876
	3635	3400	3822	4682	3913	37.49312409
38.20378638		37.5447665	44.05142219	48.63602152		
43.54355857						
ENSG00000241360		122.6379376	251.2037592	213.1600547		
302.3780448		238.517428	377.767975	195.6672505		
306.2211493		-0.64298371	0.037221847	0.154203353		PDXP
	22	37658727	37666934	+	2203	
protein_coding pyridoxal phosphatase [Source:HGNC						
Symbol;Acc:HGNC:30259]	-	106	271	218	301	261
	385	2.631395216	5.423613733	4.583998346		
6.606222776		5.162791756	8.158160932			
ENSG00000156486	0	0	4.888992081	28.12819022		
15.53561792		2.943646558	1.629664027			
15.53581823		-3.235128659	0.037249755	1	KCNS2	8
	98427022	98432848	+	5348	protein_coding	
potassium voltage-gated channel modifier subfamily S member 2						
[Source:HGNC Symbol;Acc:HGNC:6301]	-			0	0	5
	28	17	3	0	0	0.04330929
0.253144123		0.13852116	0.026186406			
ENSG00000226144		16.19746346	4.634755704	12.71137941		0
	2.741579632	0	11.18119952	0.913859877		
3.578790058		0.03726506	1	RPS27AP3	20	
37049254		37049707	+	454	processed_pseudogene	
ribosomal protein S27a pseudogene 3 [Source:HGNC						
Symbol;Acc:HGNC:16538]	-	14	5	13	0	3
	0	1.686424471	0.485565821	1.326447163		0
	0.287954586	0				
ENSG00000278829	0	0	3.911193665	36.16481599		0
	13.73701727	1.303731222	16.63394442	-3.654863725		
	0.037272662	1	AC099811.5	17	42272069	
	42275571	-	819	sense_intronic	"novel	
transcript, sense intronic to STAT5B"	-			0	0	4

36	0	14	0	0	0.226244768	
2.125297912	0	0.797976625				
ENSG00000277103	0	0	4.888992081		26.11903377	
17.36333767	2.943646558		1.629664027			
15.47533933	-3.229692284		0.037281144	1	AL445670.1	
9	97151894		97152694	-	801	
processed_pseudogene	sorting nexin 18 (SNX18)	pseudogene				-
0	0	5	26	19	3	0
0.289161151	1.569430356		1.033664694		0.174837575	
ENSG00000189149	32.39492692		29.66243651		18.57816991	
62.28384977	44.77913399		71.62873292		26.87851111	
59.56390556	-1.149694243		0.037285794		0.154426425	CRYM-
AS1	16	21300849	21339037	+	2746	
transcribed_unitary_pseudogene	CRYM antisense RNA 1 [Source:HGNC					
Symbol;Acc:HGNC:34405]	-	28	32	19	62	49
73	0.557637808		0.513787345		0.320520288	
1.091672507	0.777596227		1.240990232			
ENSG00000233387	0	0	0	18.082408		0.913859877
0.981215519	0		6.659161131		-5.153121089	
0.037417531	1	AL121748.1	10		33096257	
33116672	-	552	lincRNA novel transcript			-
0	0	0	18	1	1	0
0	1.576647636		0.078944071		0.084568175	
ENSG00000070476	1018.126275		1116.049174		1182.158285	
1521.936006	1400.947192		1231.425477		1105.444578	
1384.769558	-0.324629912		0.037431926		0.154989666	ZXDC
3	126437601		126475919	-	7357	
protein_coding	ZXD family zinc finger C [Source:HGNC					
Symbol;Acc:HGNC:28160]	zf-C2H2	880	1204	1209	1515	1533
1255	6.541489202		7.215387984		7.612512182	
9.956646616	9.080295804		7.963225344			
ENSG00000116266	2031.624703		1798.285213		1513.631948	
1138.187126	1743.644646		1179.421054		1781.180621	
1353.750942	0.395300023		0.037520008		0.155312309	STXBP3
1	108746674		108809526	+	5895	
protein_coding	syntaxin binding protein 3 [Source:HGNC					
Symbol;Acc:HGNC:11446]	-	1756	1940	1548	1133	1908
1202	16.29053754		14.50948101		12.16436947	
9.292815547	14.10435267		9.518460107			
ENSG00000240625	0	0	2.933395248		11.05036044	
6.397019142	16.68066383		0.977798416			
11.37601447	-3.51699027		0.037608042	1	RN7SL403P	
6	43036196		43036500	-	305	
misc_RNA	"RNA, 7SL, cytoplasmic 403, pseudogene [Source:HGNC					
Symbol;Acc:HGNC:46419]"	-	0	0	3	11	7
17	0	0	0.455642128		1.743789516	
1.000130792	2.60192706					
ENSG00000105607	403.7796248		456.0599613		420.4533189	
256.1674466	348.1806133		327.7259835		426.7643017	
310.6913478	0.457848111		0.037640301		0.155768078	GCDH

19	12891026	12914207	+	4136	
protein_coding	glutaryl-CoA dehydrogenase [Source:HGNC				
Symbol;Acc:HGNC:4189]	-	349 492	430	255	381
334	4.614658949	5.24467439	4.816043282		
2.980992386	4.014237312	3.769744989			
ENSG00000165175	1436.946401	1771.40363	1562.521869		
1973.996206	1991.300673	1895.708384	1590.290633		
1953.668421	-0.296440607	0.037659594	0.155802705		
MID1IP1 X	38801432	38806537	+	3790	
protein_coding	MID1 interacting protein 1 [Source:HGNC				
Symbol;Acc:HGNC:20715]	-	1242 1911	1598	1965	2179
1932	17.92161315	22.23081758	19.53169891		
25.0682814	25.05397375	23.79654726			
ENSG00000162337	490.5517505	414.34716	659.0361325		
402.835867	394.787467	325.7635525	521.311681		
374.4622955	0.477262099	0.037669052	0.155802705		LRP5
11	68312609	68449275	+	6164	
protein_coding	LDL receptor related protein 5 [Source:HGNC				
Symbol;Acc:HGNC:6697]	-	424 447	674	401	432
332	3.761819378	3.197266601	5.065236437		
3.145451253	3.054075116	2.514325439			
ENSG00000179922	190.8986765	190.951935	278.6725486		
292.3322626	287.8658614	390.5237767	220.1743867		
323.5739669	-0.55459286	0.037688541	0.155841149		ZNF784
19	55620742	55624601	-	2058	
protein_coding	zinc finger protein 784 [Source:HGNC				
Symbol;Acc:HGNC:33111]	zf-C2H2	165 206	285	291	315
398	4.384633387	4.41322234	6.415078061		
6.836736395	6.669968473	9.027837588			
ENSG00000187049	313.5366141	275.3044888	320.7178805		
285.3002151	143.4760008	164.8442073	303.1863278		
197.8734744	0.616446446	0.037706758	0.155849596		
TMEM216 11	61391687	61398863	+	2364	
protein_coding	transmembrane protein 216 [Source:HGNC				
Symbol;Acc:HGNC:25018]	-	271 297	328	284	157
168	6.26926361	5.539147565	6.427303786		
5.80860821	2.894081639	3.317476425			
ENSG00000269335	373.6986213	479.2337398	431.2091015		
459.0922475	615.9415574	678.019924	428.0471542		
584.3512429	-0.448329386	0.037710974	0.155849596		IKBKG
X	154541199	154565046	+	3529	
protein_coding	inhibitor of nuclear factor kappa B kinase subunit				
gamma [Source:HGNC	Symbol;Acc:HGNC:5961]	-	323	517	
441	457 674	691	5.005478228	6.459112409	
5.78881122	6.261317955	8.322749741	9.140552025		
ENSG00000169018	2131.123407	1598.990718	1706.258236		
2643.045302	2508.545364	1836.835452	1812.12412		
2329.475373	-0.362793873	0.037735179	0.155907481		FEM1B
15	68277803	68295865	+	7569	
protein_coding	fem-1 homolog B [Source:HGNC				
Symbol;Acc:HGNC:3649]					

-	1842	1725	1745	2631	2745	1872	
13.30901251	10.04811396		10.67970808		16.80674301		
15.80383334	11.54551673						
ENSG00000130340	1955.265232		1986.456295		1569.366458		
2012.170179	2794.583505		2193.016686		1837.029328		
2333.25679	-0.345238744		0.037769806		0.156008383		SNX9
6	157700387		157945077		+	4637	
protein_coding	sorting nexin 9		[Source:HGNC	Symbol;Acc:HGNC:14973]			
-	1690	2143	1605	2003	3058	2235	
19.93169907	20.37600475		16.03394526		20.88550929		
28.73816162	22.50020461						
ENSG00000071553	2577.710613		2780.853423		3571.897614		
2301.488707	2345.878305		2523.686316		2976.82055		
2390.351109	0.316753121		0.037862176		0.156347674		
ATP6AP1 X	154428632		154436516		+	4884	
protein_coding	ATPase H+ transporting accessory protein 1						
[Source:HGNC	Symbol;Acc:HGNC:868]		-		2228	3000	3653
2291	2567	2572	24.94791433		27.08192665		
34.64786454	22.68039691		22.9038669		24.58336587		
ENSG00000233538	0	12.97731597	12.71137941		0	0	
0.981215519	8.562898461		0.32707184		4.633529385		
0.037925694	1		AC017104.3		2	231452195	
231453153	+		568		lincRNA	novel transcript	
-	0	14	13	0	0	1	0
1.086709986	1.060223613		0		0	0.082185973	
ENSG00000160213	1428.84767		4071.169411		1457.897438		
3657.669306	7780.602996		4839.354942		2319.30484		
5425.875748	-1.226089757		0.037942303		0.156636237		CSTB
21	43772511		43776445		-	3935	
protein_coding	cystatin B		[Source:HGNC	Symbol;Acc:HGNC:2482]		-	
1235	4392	1491	3641	8514	4932	17.16393786	
49.20979465		17.55235373		44.73806114		94.28606411	
58.50922789							
ENSG00000230002	42.807582		67.66743328		60.6235018		
128.5860124	137.9928415		60.83536221		57.03283903		
109.138072	-0.933707979		0.037955121		0.15664685		ALMS1-
IT1	2	73456764	73459482		+	2105	
sense_intronic	ALMS1 intronic transcript 1		[Source:HGNC	Symbol;Acc:HGNC:41305]		-	
62	0.961267671		37	73	62	128	151
2.940079581	3.125960204		1.528990257		1.364401051		
ENSG00000127804	1384.883126		1288.462086		1409.007518		
1728.87912	1772.888162		1517.940409		1360.784243		
1673.235897	-0.298404129		0.037976284		0.156691891		
METTL16	17	2405562	2511891	-	8934	protein_coding	
methyltransferase like 16	[Source:HGNC	Symbol;Acc:HGNC:28484]		-			
1197	1390	1441	1721	1940	1547	7.327282148	
6.85966347		7.471718279		9.313997964		9.462684919	
8.083331717							
ENSG00000171462	50.90631373		41.71280134		91.91305112		

120.5493866	148.95916	80.4596726	61.51072206	
116.6560731	-0.923142471	0.038038652	0.156906872	DLK2
6	43450352	43456632	-	2236
protein_coding	delta like non-canonical Notch ligand 2 [Source:HGNC			
Symbol;Acc:HGNC:21113]	-	44	45	94
82	1.076156889	0.887308563	1.947414997	120
2.594840474	3.176686833	1.711938224		163
ENSG00000183426	267.2581471	208.5640067	198.4930785	
94.43035287	155.3561792	176.6187935	224.7717441	
142.1351085	0.659437309	0.03806537	0.156974726	NPIPA1
16	14922802	14952060	+	7277
protein_coding	nuclear pore complex interacting protein family member			
A1 [Source:HGNC	Symbol;Acc:HGNC:7909]	-	231	225
94	170	180	1.736018375	203
1.292248744	0.624563637	1.018017267	1.154692024	
ENSG00000227954	37.02277362	23.17377852	19.55596832	0
10.96631853	6.868508636	26.58417349	5.944942388	
2.151172047	0.038091007	0.157038088	TARID	6
133502252	133892802	-	7862	antisense
TCF21 antisense RNA inducing promoter demethylation				
[Source:HGNC	Symbol;Acc:HGNC:50506]	-	32	25
0	12	7	0.222593076	20
0.117841812	0	0.066513041	0.041563397	
ENSG00000233901	3.470885027	11.12341369	2.933395248	0
0	0	5.842564655	0	5.042410329
0.038100017	1	LINC01503	9	129332300
129359538	+	1594	lincRNA long intergenic non-protein	
coding RNA 1503 [Source:HGNC	Symbol;Acc:HGNC:51184]	-		3
12	3	0	0	0.102926606
0.331915006	0.08718372	0	0	
ENSG00000129292	2375.24232	2098.617383	2130.622749	
1961.941268	1777.457462	1661.197874	2201.494151	
1800.198868	0.290126455	0.038188885	0.15739916	
PHF20L1 8	132775358	132848807	+	20571
protein_coding	PHD finger protein 20 like 1 [Source:HGNC			
Symbol;Acc:HGNC:24280]	-	2053	2264	2179
1693	5.457933727	4.852381925	4.906866946	1953
4.590373837	4.120242706	3.841913564		1945
ENSG00000196504	4714.618829	3747.663462	3826.125202	
3515.019199	3568.622821	2827.863127	4096.135831	
3303.835049	0.309857631	0.038211016	0.157424365	
PRPF40A 2	152651593	152717997	-	9536
protein_coding	pre-mRNA processing factor 40 homolog A [Source:HGNC			
Symbol;Acc:HGNC:16463]	-	4075	4043	3913
2882	23.36985853	18.69267507	19.00842184	3499
17.74103353	17.84487021	14.10827024		3905
ENSG00000153814	752.0250892	608.0799484	624.8131879	
296.3505755	522.7278499	577.935941	661.6394085	
465.6714554	0.505846091	0.038215596	0.157424365	JAZF1
7	27830573	28180743	-	4206

protein_coding	JAZF zinc finger 1 [Source:HGNC	Symbol;Acc:HGNC:28917]						
-	650	656	639	295	572	589		
8.451597404	6.876517127		7.037753406		3.391204377			
5.926323549	6.537204369							
ENSG00000138757	5173.932614		4297.345489		4199.644197			
5762.260682	5622.979826		5154.325124		4556.9741			
5513.188544	-0.275037845		0.038272018		0.157614314	G3BP2		
4	75642782		75724525		-	7183		
protein_coding	G3BP stress granule assembly factor 2 [Source:HGNC	Symbol;Acc:HGNC:30291]	-	4472	4636	4295	5736	6153
5253	34.04792434		28.45584711		27.69872366			
38.61041705	37.32842331		34.13874646					
ENSG00000111335	4.627846703		25.95463194		8.800185745			
5.02289111	115.1463446		31.39889662		13.1275548			
50.52271076	-1.936934737		0.038321575		0.157748155		OAS2	
12	112978395		113011723		+	6264		
protein_coding	2'-5'-oligoadenylate synthetase 2 [Source:HGNC	Symbol;Acc:HGNC:8087]	-	4	28	9	5	126
32	0.034922309		0.19707895		0.06655692			
0.038593971	0.876551412		0.238475773					
ENSG00000168653	2791.748524		2991.271332		3161.222279			
2201.030884	2307.49619		2784.689644		2981.414045			
2431.07224	0.294548362		0.038325155		0.157748155		NDUFS5	
1	39026318		39034636		+	548		
protein_coding	NADH:ubiquinone oxidoreductase subunit S5 [Source:HGNC	Symbol;Acc:HGNC:7712]	-	2413	3227	3233	2191	2525
2838	240.8083135		259.6285004		273.2924298			
193.3138791	200.7887711		241.7563379					
ENSG00000168175	3161.97626		3162.757293		2785.747688			
4050.459391	3402.300324		3584.380293		3036.82708			
3679.046669	-0.27675608		0.038345216		0.157788242			
MAPK1IP1L	14	55051631	55070192		+		6988	
protein_coding	mitogen-activated protein kinase 1 interacting	protein 1 like [Source:HGNC	Symbol;Acc:HGNC:19840]	-				2733
3412	2849	4032	3723	3653	21.38855516			
21.52732583	18.88608799		27.89772851		23.21660634			
24.40297706								
ENSG00000100941	2600.849847		2940.289019		3117.221351			
2534.550854	1985.817514		2480.512833		2886.120072			
2333.627067	0.306910265		0.038380889		0.157892531		PNN	
14	39175183		39183218		+	4201		
protein_coding	"pinin, desmosome associated protein [Source:HGNC	Symbol;Acc:HGNC:9162]"	-	2248	3172	3188	2523	2173
2528	29.26431333		33.29005059		35.1534608			
29.03793879	22.54060884		28.09120855					
ENSG00000151090	62.47593049		106.5993812		131.0249878			
20.09156444	57.57317228		65.7414398		100.0334332			
47.80205884	1.06575136		0.038393931		0.157902014		THRβ	
3	24117153		24495756		-	10968		
protein_coding	thyroid hormone receptor beta [Source:HGNC							

Symbol;Acc:HGNC:11799]	THR-like	54	115	134	20
63	67	0.269253298	0.462279204	0.565952278	
0.088166534	0.250306257	0.285163146			
ENSG00000140829	2916.700384	3399.129833	3267.802307		
4173.017934	3259.738183	4440.000226	3194.544175		
3957.585448	-0.308734176	0.038403852	0.157902014		DHX38
16	72093562	72112912	+	6361	
protein_coding	DEAH-box helicase 38 [Source:HGNC				
Symbol;Acc:HGNC:17211]	-	2521	3667	3342	4154
4525	21.6741544	25.41671811	24.33792261		3567
31.57492394	24.43634857	33.20773264			
ENSG00000105641	0	15.75816939	4.888992081	0	0
0	6.882387158	0	5.280321391	0.038439751	
1	SLC5A5	19	17871973	17895174	+
3652	protein_coding	solute carrier family 5 member 5			
[Source:HGNC	Symbol;Acc:HGNC:11040]	-	0	17	5
0	0	0	0	0.205235324	0.063422257
0	0	0			
ENSG00000136144	1595.450151	1372.81464	1311.227676		
1241.658682	1176.137662	965.5160712	1426.497489		
1127.770805	0.338586187	0.038440486	0.15801014		RCBTB1
13	49531946	49585583	-	4534	
protein_coding	RCC1 and BTB domain containing protein 1 [Source:HGNC				
Symbol;Acc:HGNC:18243]	-	1379	1481	1341	1236
984	16.63326333	14.40149244	13.7009196		1287
13.18069078	12.36959923	10.13117036			
ENSG00000226210	192.0556382	329.9946061	315.8288884		
359.6390035	385.6488683	471.9646649	279.2930442		
405.7508455	-0.536524599	0.038459947	0.158047639		WASH8P
12	14522	32015	-	1817	unprocessed_pseudogene
"WAS protein family homolog 8, pseudogene [Source:HGNC					
Symbol;Acc:HGNC:53913]"	-	166	356	323	358
481	4.996292706	8.638314839	8.234743021		422
9.52641103	10.1208298	12.35765837			
ENSG00000163121	0	0	0.977798416	0	13.70789816
12.75580175	0.325932805	8.821233305	-4.600276392		
0.038479605	1	NEURL3	2	96497643	
96508109	-	2497	protein_coding	neuralized E3	
ubiquitin protein ligase 3 [Source:HGNC	Symbol;Acc:HGNC:25162]	-			
0	0	1	0	15	13
0.018551709	0	0.261776896	0.243036133		0
ENSG00000221843	85.615164	75.08304241	51.82331606		
139.6363729	124.2849433	104.0088451	70.84050749		
122.6433871	-0.793839246	0.038506441	0.158196174		
C2orf16	2	27537386	27582721	+	16402
protein_coding	chromosome 2 open reading frame 16 [Source:HGNC				
Symbol;Acc:HGNC:25275]	-	74	81	53	139
106	0.246734355	0.217731954	0.149686115		136
0.409750233	0.361327236	0.301685956			
ENSG00000156976	13153.49729	12766.89806	8544.980359		

13538.7007	17867.78832	12871.58518	11488.45857	
14759.35807	-0.361507414	0.038533486	0.158235962	EIF4A2
3	186783205	186789900	+ 6133	
protein_coding	eukaryotic translation initiation factor 4A2			
[Source:HGNC Symbol;Acc:HGNC:3284]	-	11369	13773	8739
13477	19552	13118	101.378069	99.01238931
66.00718783	106.2481753	138.9238536	99.84830521	
ENSG00000244306	745.0833192	646.0849452	770.5051519	
847.8640194	915.6875972	987.1028126	720.5578054	
916.8848097	-0.348038458	0.038536828	0.158235962	
DUXAP10 14	19268853	19337730	- 12311	
transcribed_processed_pseudogene	double homeobox A pseudogene			
10 [Source:NCBI gene;Acc:503639]	-	644	697	788
844	1002	1006	2.860798364	2.496165663
2.965072671	3.314746585	3.546769686	3.814614763	
ENSG00000186468	4003.087398	3828.308212	3674.566448	
4294.571899	4296.969144	5429.065469	3835.320686	
4673.535504	-0.28521293	0.038569891	0.158329194	RPS23
5	82273358	82278577	- 4204	
protein_coding	ribosomal protein S23 [Source:HGNC			
Symbol;Acc:HGNC:10410]	-	3460	4130	3758 4275 4702
5533	45.00990582	43.31330287	41.40916986	
49.16710396	48.73921332	61.43898024		
ENSG00000108384	746.2402808	590.4678767	640.4579626	
474.1609208	495.3120536	541.6309667	659.0553734	
503.7013137	0.386978966	0.038585343	0.158350105	RAD51C
17	58692573	58735611	+ 6068	
protein_coding	RAD51 paralog C [Source:HGNC Symbol;Acc:HGNC:9820]			
-	645	637	655 472	542 552
5.813114205	4.628367317	5.000324437	3.760950721	
3.892353828	4.246582263			
ENSG00000240661	1.156961676	12.97731597	3.911193665	0
0	0	6.015157104	0	5.086198519
0.038627052	1	AC063952.1	3	120349449
120423826	+ 4265	transcribed_unitary_pseudogene		novel
V-set domain-containing	pseudogene		-	1 14 4
0	0	0	0.012822588	0.1447248
0.043445361	0	0	0	
ENSG00000261465	0	0	0	4.018312888 17.36333767
0	0	7.127216853	-5.255088795	0.038644384
1	AC099518.4	16	19062499	19067691
-	696	antisense	uncharacterized	LOC102723385
[Source:NCBI gene;Acc:102723385]	-	0	0	0
4	19	0	0	0 0.277876595
1.189605488	0			
ENSG00000101849	836.4832915	869.4801701	948.4644637	
1192.43435	1082.923955	1045.975744	884.8093084	
1107.111349	-0.32300972	0.038686629	0.158703748	TBL1X
X	9463295	9741037	+ 9092	protein_coding
transducin beta like 1 X-linked	[Source:HGNC Symbol;Acc:HGNC:11585]			

-	723	938	970	1187	1185	1066	
4.348841535	4.548596044		4.942136804		6.31237089		
5.679596999	5.473231446						
ENSG00000116906	1767.83744		1646.265226		1555.67728		
1205.493866	1338.80472		1471.823279		1656.593316		
1338.707289	0.307101003		0.038692279		0.158703748		GNPAT
1	231241207		231277973		+	3261	
protein_coding	glyceronephosphate 0-acyltransferase						[Source:HGNC
Symbol;Acc:HGNC:4416]	-		1528	1776	1591	1200	1465
1500	25.62520027		24.01187758		22.6006972		
17.79228243	19.57696767		21.47269207				
ENSG00000280913	0	0	0	26.11903377	0	0	
0	8.706344591		-5.540382146		0.038696119		1
CTSLP2	10	46753605		46759740	+		1476
transcribed_unprocessed_pseudogene					cathepsin L pseudogene		
2 [Source:NCBI gene;Acc:1517]	-		0		0	0	26
0	0	0	0	0	0.851703059		0
0							
ENSG00000263017	0	0	0	26.11903377	0	0	
0	8.706344591		-5.540382146		0.038696119		1
AC036164.1	17		959034	959366	+	333	
processed_pseudogene	chromosome 19 open reading frame 70 (C19orf70)						
pseudogene	-	0	0	0	26	0	0
0	0	0	3.775116261		0	0	
ENSG00000271524	6.941770054		0	13.68917783	0	0	
0	6.876982627		0	5.27368853	0.038715404		
1	BNIP3P17		19	20221869	20222463		
+	595	processed_pseudogene			BCL2 interacting		
protein 3 pseudogene 17	[Source:HGNC Symbol;Acc:HGNC:49697]				-		
6	0	14	0	0	0	0.551479023	
0	1.089967443		0	0	0		
ENSG00000272419	231.3923351		164.9973031		190.6706912		
128.5860124	74.93650995		155.0320521		195.6867765		
119.5181915	0.711379112		0.038741256		0.158862011		
LINC01145	1	145164099		145216058	-		6056
transcribed_unprocessed_pseudogene					long intergenic non-		
protein coding RNA 1145	[Source:HGNC Symbol;Acc:HGNC:49462]				-		
200	178	195	128	82	158	1.806087729	
1.295889866		1.491595968		1.021939815		0.590046969	
1.217915777							
ENSG00000188785	522.9466774		494.0649581		404.8085443		
650.9666879	570.2485635		652.5083204		473.9400599		
624.5745239	-0.398577123		0.038762331		0.15889224		ZNF548
19	57389850		57402992		+	6161	
protein_coding	zinc finger protein 548						[Source:HGNC
Symbol;Acc:HGNC:26561]	zf-C2H2		452	533	414	648	624
665	4.012194135		3.814257055		3.112802654		
5.085398769	4.413589915		5.038676457				
ENSG00000161204	1489.009677		1362.618177		1309.272079		
1796.185861	1479.539142		1915.332694		1386.966644		

1730.352566	-0.319241263	0.038769416	0.15889224	ABCF3
3	184186023	184194012	+ 5207	
protein_coding	ATP binding cassette subfamily F member 3 [Source:HGNC			
Symbol;Acc:HGNC:72]	-	1287 1470	1339 1788	1619
1952	13.51716708	12.44697207	11.91229542	
16.602793	13.54933151	17.50000898		
ENSG00000219992	4.627846703	5.561706845	6.844588913	0
0	0	5.678047487	0	4.99911281
0.038782119	1	AL391422.1	6	3754099 3754840 +
436	processed_pseudogene	FUN14 domain containing	1	
(FUNDC1) pseudogene	-	4	6	7 0 0
0	0.501727857	0.60673454	0.743727785	0
0	0			
ENSG00000257403	0	1.853902282	0	0 31.07123583
4.906077597	0.617967427	11.99243781	-4.226191284	
0.038792703	1	AC008740.1	16	21347139
21352138	+	255	unprocessed_pseudogene	BTG3
associated nuclear protein (BNAP) pseudogene	-	0		2
0	0	34	5	0 0.345799032 0
0	5.810283647	0.915326129		
ENSG00000173559	569.2251445	633.1076292	429.2535047	
771.5160745	647.9266531	755.53595	543.8620928	
724.9928925	-0.414522688	0.03879813	0.158967305	NABP1
2	191678068	191696659	+ 13806	
protein_coding	nucleic acid binding protein 1 [Source:HGNC			
Symbol;Acc:HGNC:26232]	-	492 683	439 768	709
770	1.948910729	2.181156324	1.472987655	
2.689642555	2.23788087	2.603567801		
ENSG00000184787	4535.289769	4308.468903	3850.570163	
5588.468649	4448.669883	5436.915193	4231.442945	
5158.017909	-0.285689236	0.03883569	0.159078561	UBE2G2
21	44768580	44802019	- 7388	
protein_coding	ubiquitin conjugating enzyme E2 G2 [Source:HGNC			
Symbol;Acc:HGNC:12483]	-	3920 4648	3938 5563	4868
5541	29.01709242	27.73787525	24.69171644	
36.40687391	28.71324526	35.01122442		
ENSG00000223949	4.627846703	11.12341369	0.977798416	
13.05951689	46.60685375	15.69944831	5.576352936	
25.12193965	-2.16527462	0.038894903	0.159278431	ROR1-
AS1	1	64094442	64171297	- 3544
antisense	ROR1 antisense RNA 1 [Source:HGNC			
Symbol;Acc:HGNC:40508]	-	4 12	1 13	51
16	0.061724985	0.149286828	0.013070998	
0.17735803	0.627097487	0.210752291		
ENSG00000100077	285.7695339	234.5186386	303.117509	
157.7187809	180.0303959	223.7171384	274.4685605	
187.1554384	0.551839097	0.03892112	0.159343108	GRK3
22	25564849	25729294	+ 9303	
protein_coding	G protein-coupled receptor kinase 3 [Source:HGNC			
Symbol;Acc:HGNC:290]	-	247 253	310 157	197

228	1.452006783	1.19903389	1.543622601		
0.815976869	0.922787712	1.144083868			
ENSG00000143727	1833.784256	1670.365956	1290.693909		
1166.315316	1324.182962	1283.429899	1598.281374		
1257.976059	0.344956788	0.038938815	0.159372868	ACP1	
2	264140	278283	+	4160	protein_coding acid
phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:122]	-	1585	1802		
1320	1161	1449	1308	20.83678203	19.09833091
14.69883979	13.49398135	15.17866768	14.67778254		
ENSG00000254944	10.41265508	3.707804563	1.955596832		
39.17855066	23.76035681	7.849724156	5.358685492		
23.59621054	-2.157446961	0.038960998	0.15942098		
ATP5BP5	11	122960327	122961086	+	760
processed_pseudogene	ATP synthase peripheral stalk-membrane				
subunit b pseudogene 5 [Source:HGNC Symbol;Acc:HGNC:39746]	-				
9	4	2	39	26	8
0.23204935	0.121904253	2.48114549	1.490796462		
0.491385606					
ENSG00000184304	159.6607112	239.1533943	253.2497898		
155.7096244	147.1314403	119.7082934	217.3546318		
140.849786	0.62763	0.03899867	0.159532423	PRKD1	14
29576479	30191898	-	5187	protein_coding	
protein kinase D1 [Source:HGNC Symbol;Acc:HGNC:9407]	-				
138	258	259	155	161	122
2.192993861	2.313055066	1.444829721	1.352596396		
1.097967837					
ENSG00000254978	2.313923351	7.415609127	10.75578258		
17.07782977	26.50193645	33.36132766	6.828438352		
25.64703129	-1.896887272	0.039032639	0.159619178		
ALG1L9P 11	71800541	71804640	-	549	
transcribed_unprocessed_pseudogene	"asparagine-linked				
glycosylation 1-like 9, pseudogene [Source:HGNC					
Symbol;Acc:HGNC:44378]"	-	2	8	11	17
34	0.199228912	0.642468147	0.92815989		29
1.497193019	2.30188833	2.891030067			
ENSG00000138678	59.00504546	38.93194792	32.26734773		
132.6043253	60.31475191	71.62873292	43.40144704		
88.18260338	-1.0258638	0.039042284	0.159619178	GPAT3	
4	83535914	83605875	+	3468	
protein_coding	glycerol-3-phosphate acyltransferase 3 [Source:HGNC				
Symbol;Acc:HGNC:28157]	-	51	42	33	132
73	0.804240242	0.533954388	0.440795657		66
1.840331496	0.829322493	0.98262952			
ENSG00000270021	3.470885027	0.926951141	3.911193665		
24.10987733	8.224738897	14.71823279	2.769676611		
15.68428301	-2.511425703	0.039053191	1	AC026691.1	
5	135399280	135401296	+	2017	
antisense	"novel transcript, antisense to H2AFY"	-			3
1	4	24	9	15	0.081341105
0.021858888	0.091866368	0.575316143	0.194444297		

0.347161372					
ENSG00000167670	1760.89567		2084.713116	2353.560788	
1714.815025	1368.962096		1810.342633	2066.389858	
1631.373252	0.341522363		0.039057484	0.159619178	CHAF1A
19	4402662	4445018	+	4299	protein_coding
chromatin assembly factor 1 subunit A [Source:HGNC					
Symbol;Acc:HGNC:1910]	-		1522	2249	2407 1707 1498
1845	19.36163016		23.06513327	25.93648394	
19.19849975	15.18458636		20.03433637		
ENSG00000114391	9918.632446		10402.2457	9954.965675	
9815.733807	12785.81354		14990.02949	10091.94794	
12530.52561	-0.312243991		0.039061644	0.159619178	RPL24
3	101681091		101686782	-	2682
protein_coding ribosomal protein L24 [Source:HGNC					
Symbol;Acc:HGNC:10325]	-		8573	11222	10181 9771 13991
15277	174.8110023		184.4783684	175.8466583	
176.1495168	227.3257229		265.904288		
ENSG00000128203	102.9695891		112.161088	124.1803989	
210.9614266	176.3749563		145.2198969	113.103692	
177.5187599	-0.649241777		0.03911968	0.159813616	ASPHD2
22	26429273		26445015	+	3357
protein_coding aspartate beta-hydroxylase domain containing 2					
[Source:HGNC Symbol;Acc:HGNC:30437]	-			89	121 127
210	193	148	1.449884403	1.589161324	
1.752487123	3.024608512		2.505327846	2.058052314	
ENSG00000155506	5510.608461		6245.796787	6945.30215	
8970.883523	6659.296927		7444.482146	6233.902466	
7691.554199	-0.302984293		0.039151262	0.159875269	LARP1
5	154712902		154817607	+	8492
protein_coding La ribonucleoprotein domain family member 1					
[Source:HGNC Symbol;Acc:HGNC:29531]	-			4763	6738 7103
8930	7287	7587	30.67363948	34.98283318	
38.74666117	50.84434886		37.39360893	41.70672942	
ENSG00000074964	444.2732835		482.0145932	647.3025515	
356.6252688	387.476588		411.1293027	524.5301427	
385.0770532	0.446432314		0.039155688	0.159875269	
ARHGEF10L	1	17539835	17697874	+	7817
protein_coding Rho guanine nucleotide exchange factor 10 like					
[Source:HGNC Symbol;Acc:HGNC:25540]	-			384	520 662
355	424	419	2.686493692	2.932899555	
3.923018293	2.195783198		2.36365639	2.502188057	
ENSG00000068784	466.2555553		438.4478896	463.4764493	
345.5749084	362.8023713		318.8950438	456.0599647	
342.4241078	0.41303632		0.03921661	0.160081259	SRBD1
2	45388680		45612165	-	5045
protein_coding S1 RNA binding domain 1 [Source:HGNC					
Symbol;Acc:HGNC:25521]	-		403	473	474 344 397
325	4.368562851		4.133652155	4.352308054	
3.296844689	3.429161459		3.007240948		
ENSG00000238078	16.19746346		27.80853423	8.800185745	

40.18312888	41.12369448	55.92928461	17.60206114	
45.74536932	-1.374187447	0.039268966	0.160252186	
LINC01352	1	220829255	220832429	+
	lincRNA	long intergenic non-protein coding RNA	1352	962
[Source:HGNC Symbol;Acc:HGNC:50578]		-	14	30
	40	45	57	0.795880156
0.433381026	2.010416944	2.038431113	2.765959517	
ENSG00000136891	2103.356326	1831.655454	1451.05285	
2245.232326	2511.286943	2059.571375	1795.354877	
2272.030215	-0.340195754	0.039284505	0.160272813	TEX10
	9	100302077	100352939	-
				7261
protein_coding	testis expressed	10	[Source:HGNC	
Symbol;Acc:HGNC:25988]		-	1818	1976
	2099	13.69279653	11.99843109	1484
				2235
14.88271987	16.49221126	13.49466282	9.467600414	2748
ENSG00000150625	41.65062033	63.95962872	38.13413823	
5.02289111	29.24351608	17.66187935	47.91479576	
17.30942885	1.465503744	0.039339803	0.160455595	GPM6A
	4	175632934	176002664	-
				7040
protein_coding	glycoprotein	M6A	[Source:HGNC	
Symbol;Acc:HGNC:4460]		-	36	69
			39	5
			32	18
0.279656266	0.432125992	0.256622306	0.034339863	
0.198077852	0.119356447			
ENSG00000103018	3539.145766	3608.620791	3875.992922	
3170.448869	3210.389749	2806.276386	3674.586493	
3062.371668	0.262963222	0.039429859	0.16078001	CYB5B
	16	69424525	69466266	+
				6903
protein_coding	cytochrome b5	type B	[Source:HGNC	
Symbol;Acc:HGNC:24374]		-	3059	3893
	2860	24.23462569	24.86454339	3964
				3156
22.10549975	22.17679971	19.34078938	26.60101623	3513
ENSG00000134262	998.4579261	786.9815186	776.3719424	
1185.402302	1059.163598	1022.426571	853.9371291	
1088.99749	-0.351626562	0.039454625	0.160838093	AP4B1
	1	113894748	113905201	-
				5369
protein_coding	adaptor related	protein complex	4 subunit beta	1
[Source:HGNC Symbol;Acc:HGNC:572]		-	863	849
	1180	1159	1042	8.79047017
6.850614891	10.62648956	9.40694554	9.059836305	
ENSG00000188283	230.2353735	268.8158308	191.6484896	
289.3185279	381.9934288	316.9326128	230.2332313	
329.4148565	-0.516864198	0.039469381	0.160855351	ZNF383
	19	37217926	37248738	+
				8417
protein_coding	zinc finger protein	383	[Source:HGNC	
Symbol;Acc:HGNC:18609]		zf-C2H2	199	290
	323	1.292975995	1.519058953	196
				288
1.654384213	2.164101133	1.791394477	1.078701295	418
ENSG00000147100	666.4099252	777.7120072	447.8316746	
683.113191	965.9498904	963.5536401	630.6512023	
870.8722405	-0.465768664	0.039491544	0.160902781	

SLC16A2 X	74421461	74533917	+	4324	
protein_coding	solute carrier family 16 member 2		[Source:HGNC		
Symbol;Acc:HGNC:10923]	-	576 839	458	680	1057
982	7.28503279	8.554807343	4.906618009		
7.603690725	10.65241064	10.60161035			
ENSG00000279901	8.09873173	0.926951141	8.800185745	0	
0	0	5.941956205	0	5.061292669	
0.039521185	1	AC092117.2	16	2683106	2684764 +
1659	TEC	tec	-	7	1 9 0
0	0	0.230752474	0.026575875	0.251303524	
0	0	0			
ENSG00000100938	940.6098424	1061.359056	912.2859223		
1068.871228	1286.714707	1314.828796	971.4182736		
1223.471577	-0.33267994	0.039523581	0.160990405	GMPR2	
14	24232422	24239242	+	3640	
protein_coding	guanosine monophosphate reductase 2		[Source:HGNC		
Symbol;Acc:HGNC:4377]	-	813 1145	933	1064	1408
1340	12.21473009	13.86877368	11.87360825		
14.13323111	16.8562075	17.1849966			
ENSG00000116729	2020.055086	1904.884594	2442.540444		
1749.975263	1474.055982	1862.347056	2122.493375		
1695.459434	0.324277934	0.039548503	0.161013479	WLS	
1	68098473	68233120	-	4469	
protein_coding	wntless Wnt	ligand secretion mediator	[Source:HGNC		
Symbol;Acc:HGNC:30238]	-	1746 2055	2498	1742	1613
1898	21.36626436	20.27381268	25.89312901		
18.84686035	15.72832992	19.82585334			
ENSG00000181788	787.8909012	946.4171148	851.6624205		
1246.681574	1040.8864	999.8586143	861.9901455		
1095.808863	-0.345555313	0.039551997	0.161013479	SIAH2	
3	150741127	150763477	-	2617	
protein_coding	siah E3 ubiquitin protein ligase 2		[Source:HGNC		
Symbol;Acc:HGNC:10858]	-	681 1021	871	1241	1139
1019	14.23108793	17.20109037	15.41760405		
22.92816378	18.96612459	18.17676101			
ENSG00000040341	1173.159139	985.3490627	1115.667993		
729.3237892	965.9498904	866.4133037	1091.392065		
853.8956611	0.353331873	0.039571307	0.161013479	STAU2	
8	73420369	73747708	-	8998	
protein_coding	staufen double-stranded RNA binding protein 2		[Source:HGNC		
Symbol;Acc:HGNC:11371]	-	1014 1063	1141		
726	1057 883	6.16292211	5.208602723		
5.874110493	3.901142805	5.119029075	4.58100484		
ENSG00000105499	54.37719876	101.9646255	79.20167171		
150.6867333	200.1353132	80.4596726	78.51449865		
143.760573	-0.870074206	0.039584932	0.161013479		
PLA2G4C 19	48047843	48110817	-	6613	
protein_coding	phospholipase A2 group IVC		[Source:HGNC		
Symbol;Acc:HGNC:9037]	-	47 110	81	150	219
82	0.388681659	0.73337841	0.567399504		

1.096715428	1.443125796	0.578843773			
ENSG00000245694	646.7415767	558.0245868	533.8779352		
383.7488808	487.0873147	439.5845527	579.5480329		
436.8069161	0.406851073	0.039593876	0.161013479	CRNDE	
16	54845189	54929189	-	5846	
lincRNA colorectal neoplasia differentially expressed [Source:HGNC					
Symbol;Acc:HGNC:37078]	-	559	602	546	382
448	5.229349994	4.540165019	4.32649581	533	
3.159408399	3.973077126	3.577381352			
ENSG00000100344	264.9442237	246.5690035	349.0740346		
259.1811813	170.8917971	120.6895089	286.8624206		
183.5874958	0.64456715	0.039600404	0.161013479	PNPLA3	
22	43923739	43964488	+	3232	
protein_coding patatin like phospholipase domain containing 3					
[Source:HGNC Symbol;Acc:HGNC:18590]	-		229	266	357
258	187	123	3.874885224	3.628642998	
5.116810341	3.859664633	2.521325128	1.776559655		
ENSG00000080854	107.5974358	53.76316617	86.04626062		
188.8607057	96.86914701	152.0884055	82.46895421		
145.9394194	-0.826127412	0.039602975	0.161013479	IGSF9B	
11	133908564	133956985	-	5753	
protein_coding immunoglobulin superfamily member 9B [Source:HGNC					
Symbol;Acc:HGNC:32326]	-	93	58	88	188
155	0.884063148	0.444495714	0.708583041	106	
1.580027667	0.802915957	1.257718242			
ENSG00000188906	65.94681552	64.88657986	29.33395248		
87.39830532	106.0077458	109.8961382	53.38911595		
101.1007298	-0.92323155	0.039618744	0.161034763	LRRK2	
12	40196744	40369285	+	13491	
protein_coding leucine rich repeat kinase 2 [Source:HGNC					
Symbol;Acc:HGNC:18618]	-	57	70	30	87
112	0.23106035	0.228764092	0.103010043	116	
0.311800155	0.374690295	0.387543017			
ENSG00000166226	8385.658226	8897.804001	8360.176458		
6836.154801	7071.447731	7774.170561	8547.879562		
7227.257698	0.242150323	0.039648603	0.161106026	CCT2	
12	69585334	69601570	+	4322	
protein_coding chaperonin containing TCP1 subunit 2 [Source:HGNC					
Symbol;Acc:HGNC:1615]	-	7248	9599	8550	6805
7923	91.71241612	97.9208528	91.63973148	7738	
76.12802859	78.01939182	85.5757924			
ENSG00000116711	397.9948164	434.7400851	431.2091015		
249.1353991	365.543951	300.251949	421.3146677		
304.9770997	0.465809149	0.039663781	0.161106026		
PLA2G4A 1	186828953	186988981	+	2875	
protein_coding phospholipase A2 group IVA [Source:HGNC					
Symbol;Acc:HGNC:9035]	-	344	469	441	248
306	6.543578342	7.192319171	7.105639928	400	
4.170758545	6.062904675	4.968549413			
ENSG00000114698	411.8783566	239.1533943	315.8288884		

191.8744404	199.2214533	260.0221127	322.2868798	
217.0393354	0.568778994	0.039667893	0.161106026	PLSCR4
3	146192339	146251179	- 4227	
protein_coding	phospholipid scramblase 4 [Source:HGNC			
Symbol;Acc:HGNC:16497]	-	356 258	323 191	218
265	4.605878346	2.691047825	3.53975114	
2.184752957	2.247412766	2.926575024		
ENSG00000164331	220.9796801	231.7377852	179.9149086	
277.2635893	380.165709	261.9845437	210.8774579	
306.4712807	-0.540093945	0.039678956	0.161108154	ANKRA2
5	73552335	73565686	- 2659	
protein_coding	ankyrin repeat family A member 2 [Source:HGNC			
Symbol;Acc:HGNC:13208]	-	191 250	184 276	416
267	3.928346092	4.145296783	3.205545469	
5.018708382	6.817632561	4.68747495		
ENSG00000196507	334.3619243	414.34716	468.3654413	
213.9751613	277.8134027	355.200018	405.6915085	
282.3295274	0.523668536	0.039742307	0.161322528	TCEAL3
X	103607451	103629690	+ 2305	
protein_coding	transcription elongation factor A like 3 [Source:HGNC			
Symbol;Acc:HGNC:28247]	-	289 447	479 213	304
362	6.856802268	8.550087345	9.626469507	
4.467966315	5.747265386	7.33134533		
ENSG00000284770	299.653074	318.8711925	277.6947502	
243.1079297	181.8581156	205.0740436	298.7396722	
210.013363	0.50916613	0.039791633	0.161479875	TBCE
1	235367360	235452443	+ 12444	
protein_coding	tubulin folding cofactor E [Source:HGNC			
Symbol;Acc:HGNC:11582]	-	259 344	284 242	199
209	1.138241653	1.218799867	1.057208858	
0.940278661	0.696869844	0.784029348		
ENSG00000154723	3607.406505	2959.754993	2871.793948	
2451.170862	2440.005873	2801.370308	3146.318482	
2564.182348	0.294892155	0.039825321	0.161545105	ATP5PF
21	25716503	25735673	- 2043	
protein_coding	ATP synthase peripheral stalk subunit F6 [Source:HGNC			
Symbol;Acc:HGNC:847]	-	3118 3193	2937 2440	2670
2855	83.46462702	68.90718523	66.59444988	
57.74610234	56.95101813	65.23546791		
ENSG00000112695	1797.918444	1578.597793	1623.145371	
1170.333629	1464.917383	1389.401176	1666.553869	
1341.550729	0.312477757	0.039837159	0.161545105	COX7A2
6	75237675	75250323	- 1922	
protein_coding	cytochrome c oxidase subunit 7A2 [Source:HGNC			
Symbol;Acc:HGNC:2288]	-	1554 1703	1660 1165	1603
1416	44.2173126	39.0656651	40.00895061	
29.30716157	36.3445032	34.39187914		
ENSG00000011590	0	13.90426711	9.777984162	44.20144177
	18.27719755	33.36132766	7.894083758	31.94665566
	-1.998227213	0.039839409	0.161545105	ZBTB32 19

35704527	35717038	+	2770	protein_coding	
zinc finger and BTB domain containing 32 [Source:HGNC					
Symbol;Acc:HGNC:16763]	ZBTB	0	15	10	44 20
34	0	0.238751137	0.167233272	0.768022819	
0.314636299	0.572987548				
ENSG00000254538	5.784808379	8.342560268	2.933395248	0	
0	0	5.686921298	0	5.001073413	
0.03984318	1	AC027018.1	8	73670441	
73732897	+	707	lincRNA novel transcript	-	
5	9	3	0	0	0.386763341
0.561250904	0.196564143	0	0	0	
ENSG00000235522	5.784808379	8.342560268	2.933395248	0	
0	0	5.686921298	0	5.001073413	
0.03984318	1	AC010978.1	2	105846534	
105857177	-	2166	antisense	novel transcript	
-	5	9	3	0	0
0.126242697	0.183196856	0.064160133	0	0	0
ENSG00000142552	2148.477832	2622.344777	3669.677456		
1852.442241	1859.704851	2638.488532	2813.500022		
2116.878541	0.410699784	0.039856512	0.161571601	RCN3	
19	49527618	49546962	+	2093	
protein_coding	reticulocalbin 3 [Source:HGNC				
Symbol;Acc:HGNC:21145]	1857	2829	3753	1844	2035 2689
48.52185416	59.59333318	83.06379934	42.59836249		
42.36954332	59.97463447				
ENSG00000162723	100.6556658	262.3271729	44.97872714		
247.1262426	624.1662963	381.6928371	135.9871886		
417.661792	-1.618239046	0.039875752	0.161606741	SLAMF9	
1	159951492	159954254	-	1156	
protein_coding	SLAM family member 9 [Source:HGNC				
Symbol;Acc:HGNC:18430]	-	87	283	46	246 683
389	4.115817707	10.79350655	1.843327293		
10.28912609	25.74669376	15.70861165			
ENSG00000003249	92.55693406	152.0199871	176.0037149		
170.7782977	243.0867274	257.0784661	140.1935454		
223.6478304	-0.671310875	0.039922589	0.161724331	DBNDD1	
16	90004865	90020128	-	4791	
protein_coding	dysbindin domain containing 1 [Source:HGNC				
Symbol;Acc:HGNC:28455]	-	80	164	180	170 266
262	0.913184495	1.509216815	1.74039886		
1.715631324	2.419435583	2.552825658			
ENSG00000159314	39.33669697	63.95962872	46.93432398		
135.61806	58.48703215	99.10276747	50.07688322		
97.7359532	-0.960498962	0.03993531	0.161724331		
ARHGAP27	17	45393902	45434421	-	10426
protein_coding	Rho GTPase activating protein 27 [Source:HGNC				
Symbol;Acc:HGNC:31813]	-	34	69	48	135 64
101	0.178342935	0.29178659	0.213268136		
0.626061885	0.267498192	0.45221992			
ENSG00000204922	224.4505651	332.7754596	260.0943787		

284.2956368	364.6300911	581.860803	272.4401345	
410.262177	-0.589344915	0.039949126	0.161724331	UQCC3
11	62670273	62673687	+	2398
protein_coding ubiquinol-cytochrome c reductase complex assembly				
factor 3 [Source:HGNC Symbol;Acc:HGNC:34399]				
	-		194	359
266	283	399	593	4.424327468
	5.138482877	5.706088107	7.250739706	6.60053636
ENSG00000227214	15.04050178	11.12341369	1.955596832	
59.2701151	28.3296562	13.73701727	9.373170769	
33.77892952	-1.85674064	0.039951756	0.161724331	HCG15
6	28986203	28987484	+	1032
antisense HLA complex group 15 [Source:HGNC				
Symbol;Acc:HGNC:18361]				
	-	13	12	2
				59
14	0.688903463	0.51266717	0.08977445	31
2.764225893	1.309002857	0.633277961		
ENSG00000143147	1277.28569	1171.666242	1373.806775	
1379.285899	1658.655678	1729.882961	1274.252902	
1589.274846	-0.318920822	0.039957663	0.161724331	GPR161
1	168079543	168137667	-	11224
protein_coding G protein-coupled receptor 161 [Source:HGNC				
Symbol;Acc:HGNC:23694]				
	-	1104	1264	1405
				1373
1763	5.379180633	4.965161439	5.798706425	1815
5.914582524	7.046728987	7.332476675		
ENSG00000160323	13.88354011	31.51633879	4.888992081	
56.25638043	67.62563093	23.54917247	16.76295699	
49.14372794	-1.54723674	0.039984217	0.161741913	
ADAMTS13	9	133414358	133459402	+
				5708
protein_coding ADAM metalloproteinase with thrombospondin type				
1 motif 13 [Source:HGNC Symbol;Acc:HGNC:1366]				
	-		12	34
5	56	74	24	0.114971976
	0.0405778	0.474356962	0.564945239	0.262620673
				0.196278763
ENSG00000278730	386.4251997	303.1130231	498.6771922	
268.2223853	253.139186	312.0265352	396.071805	
277.7960355	0.511723961	0.039997616	0.161741913	
AC005332.6	17	68126666	68129586	+
				2921
lincRNA novel transcript				
	-		334	327
267	277	318	6.253305159	4.935715899
8.08799874	4.419579199	4.132442409	5.082081189	
ENSG00000258077	20.82531016	15.75816939	5.866790497	
67.30674088	41.12369448	17.66187935	14.15009002	
42.03077157	-1.576081968	0.040004068	0.161741913	
AC078923.1	12	75563202	75984015	-
				1385
lincRNA novel transcript				
	-		18	17
67	45	18	0.710750943	0.541169243
0.200679926	2.338978586	1.415863344	0.606692697	
ENSG00000204685	76.3594706	51.90926389	71.37928438	
125.5722778	127.9403828	93.21547435	66.54933962	
115.576045	-0.79896319	0.040004329	0.161741913	
STARD7-AS1	2	96208416	96242621	+
				2349
processed_transcript STARD7 antisense RNA 1 [Source:HGNC				

Symbol;Acc:HGNC:40827]	-	66	56	73	125	140
95	1.536581611	1.051087735	1.439601529			
2.572931433	2.59718937	1.887933203				
ENSG00000269845	21.98227184	0	9.777984162	0		
0.913859877	0.981215519	10.586752	0.631691799			
4.050135404	0.040024519	1	AC092364.2	19		
21750747	21753438	+	2692			
transcribed_processed_pseudogene			cyclin Y like 1 pseudogene			
[Source:NCBI gene;Acc:641367]	-	19	0	10	0	
1	1	0.385987516	0	0.172078812	0	
0.01618764	0.017340874					
ENSG00000256128	28.92404189	39.85889906	68.44588913			
99.45324398	95.95528713	74.57237948	45.74294336			
89.99363686	-0.97269142	0.040060316	0.161907532			
LINC00944	12	126729787	126772411	-		1853
lincRNA long intergenic non-protein coding RNA	944					
[Source:HGNC Symbol;Acc:HGNC:48640]	-	25	43			70
99	105	76	0.737835084	1.023120989		
1.749947729	2.583217605	2.46929216	1.914627131			
ENSG00000251322	21.98227184	17.61207168	33.24514615			
59.2701151	42.95141424	62.79779325	24.27982989			
55.00644086	-1.179006878	0.04007215	0.161907532			SHANK3
22	50674415	50733298	+	7455		
protein_coding SH3 and multiple ankyrin repeat domains 3						
[Source:HGNC Symbol;Acc:HGNC:14294]	-	19	19	34	59	47
64	0.139380066	0.112367291	0.211268002			
0.382653403	0.274731722	0.400754458				
ENSG00000163795	261.4733387	486.6493489	368.6300029			
622.8384977	492.5704739	476.8707425	372.2508968			
530.7599047	-0.509624834	0.040078424	0.161907532			ZNF513
2	27377231	27380790	-	2365		
protein_coding zinc finger protein 513						
[Source:HGNC Symbol;Acc:HGNC:26498]	zf-C2H2	226	525	377	620	539
486	5.226031304	9.787282327	7.384356596			
12.67540256	9.93153135	9.592927451				
ENSG00000167548	2083.687978	2612.148315	3685.322231			
5927.01151	2919.782308	5377.061047	2793.719508			
4741.284955	-0.76298634	0.040087657	0.161907532			KMT2D
12	49018975	49059774	-	20485		
protein_coding lysine methyltransferase 2D						
[Source:HGNC Symbol;Acc:HGNC:7133]	-	1801	2818	3769	5900	3195
5480	4.808088548	6.065114142	8.523002679			
13.92570721	6.796627869	12.4879349				
ENSG00000250651	1.156961676	4.634755704	1.955596832			
20.09156444	21.93263706	4.906077597	2.582438071			
15.64342637	-2.580028548	0.040090874	1	PABPC1P7		
4	102896725	102898237	+	1513		
processed_pseudogene poly(A) binding protein cytoplasmic 1						
pseudogene 7						
[Source:HGNC Symbol;Acc:HGNC:37987]	-					1
5	2	20	24	5	0.036145629	

0.145701839	0.061234126	0.639134534	0.691243263		
0.154268449					
ENSG00000249348	67.10377719	53.76316617	60.6235018		
167.7645631	78.59194946	89.29061227	60.49681505		
111.8823749	-0.887446244	0.040123341	0.162008851	UGDH-	
AS1	4	39528019	39594707	+	2787
antisense	UGDH antisense RNA 1 [Source:HGNC				
Symbol;Acc:HGNC:40601]	-	58	58	62	167
91	1.138113926	0.91753995	1.030521784		86
2.897214959	1.344683514	1.524229839			
ENSG00000158669	2324.336007	2220.047982	2486.541372		
3092.091767	2663.901543	2744.459808	2343.641787		
2833.484373	-0.273762883	0.040187485	0.162225001	GPAT4	
8	41577187	41625001	+	7939	
protein_coding	glycerol-3-phosphate acyltransferase 4 [Source:HGNC				
Symbol;Acc:HGNC:20880]	-	2009	2395	2543	3078
2797	13.83913187	13.30067476	14.83826128		2915
18.74580219	16.00041897	16.44647012			
ENSG00000197721	5.784808379	0	14.66697624	0	0
0	6.81726154	0	5.261641015	0.040188424	
1	CR1L	1	207645113	207738416	+
2768	protein_coding complement C3b/C4b receptor 1 like				
[Source:HGNC	Symbol;Acc:HGNC:2335]	-	5	0	15
0	0	0	0.098786735	0	0.251031158
0	0	0			
ENSG00000270926	5.784808379	0	14.66697624	0	0
0	6.81726154	0	5.261641015	0.040188424	
1	AC008013.3	12	31105105	31106830	
-	675	unprocessed_pseudogene WAS protein family			
homolog	4	pseudogene	-	5	0
0	0.405098788	0	1.029413696	0	0
0					
ENSG00000246089	106.4404742	138.11572	147.6475608		
55.25180221	47.52071363	112.8397847	130.734585		
71.87076686	0.865115186	0.040224374	0.162331045		
AC016065.1	8	6403551	6407142	-	2934
	uncharacterized LOC100287015 [Source:NCBI gene;Acc:100287015]				
-	92	149	151	55	52
					115
1.714835362	2.239031053	2.384071596	0.906366398		
0.772328092	1.829716341				
ENSG00000235436	0	7.415609127	12.71137941	0	0
0	6.708996179	0	5.242462726	0.040251384	
1	DPY19L2P4	7	90119400	90125600	
+	2018	transcribed_unprocessed_pseudogene			
DPY19L2	pseudogene 4 [Source:HGNC Symbol;Acc:HGNC:22176]				
0	8	13	0	0	0
0.174784446	0.298417746	0	0	0	
ENSG00000232973	0	6.488657986	13.68917783	0	0
0	6.725945271	0	5.245953183	0.040268504	
1	CYP1B1-AS1	2	38073447	38231651	

	+	7447	antisense	CYP1B1 antisense RNA 1			
[Source:HGNC	Symbol;Acc:HGNC:28543]	-	0	7	14		
	0	0	0	0	0.041442948	0.087086159	
	0	0	0				
ENSG00000107672	971.8478076	953.8327239	784.1943298				
689.1406603	808.7659915	574.0110789	903.2916204				
690.6392436	0.386722923	0.040287406	0.162535193				
NSMCE4A 10	121957088	121975217	-	3546			
protein_coding	"NSE4 homolog A, SMC5-SMC6 complex component						
[Source:HGNC	Symbol;Acc:HGNC:25935]"	-	840	1029	802		
	686	885	585	12.95493587	12.79412535		
10.47702772	9.35376815	10.8758482	7.701284559				
ENSG00000145916	503.2783289	499.6266649	464.4542477				
594.7103074	553.7990857	814.4088812	489.1197472				
654.3060914	-0.419706005	0.040296224	0.162535193				RMND5B
	5	178130996	178150565	+	7701		
protein_coding	required for meiotic nuclear division 5 homolog B						
[Source:HGNC	Symbol;Acc:HGNC:26181]	-	435	539	475		
	592	606	830	3.089134703	3.0858556		
2.85725461	3.716856548	3.429131175	5.031262826				
ENSG00000204301	13.88354011	32.44328993	44.00092873				
3.013734666	17.36333767	2.943646558	30.10925292				
7.773572965	1.947555708	0.040334623	0.162647159				NOTCH4
	6	32194843	32224067	-	9748		
protein_coding	notch 4 [Source:HGNC	Symbol;Acc:HGNC:7884]					-
	12	35	45	3	19	3	0.067322532
	0.158302029	0.213845172	0.014880138	0.084936953			
	0.014366526						
ENSG00000104957	661.7820785	794.3971277	690.3256818				
742.3833061	1031.747802	1030.276295	715.5016293				
934.8024677	-0.385448607	0.040360707	0.162647545				
CCDC130 19	13731760	13763296	+	3307			
protein_coding	coiled-coil domain containing 130 [Source:HGNC						
Symbol;Acc:HGNC:28118]	-	572	857	706	739	1129	
	1050	9.45924658	11.42564128	9.889468738			
10.80466883	14.87710214	14.82180653					
ENSG00000178741	1089.857899	1543.37365	1542.965901				
1069.875806	997.9349861	1183.345916	1392.065816				
1083.718903	0.362019123	0.040371132	0.162647545				COX5A
	15	74919791	74938168	-	1411		
protein_coding	cytochrome c oxidase subunit 5A [Source:HGNC						
Symbol;Acc:HGNC:2267]	-	942	1665	1578	1065	1092	
	1206	36.51056904	52.0260893	51.80628387			
36.49419687	33.72517581	39.89939678					
ENSG00000087152	1571.153956	1810.335578	1976.130599				
2232.172809	2067.151043	2275.43879	1785.873378				
2191.587547	-0.294885356	0.040377727	0.162647545				
ATXN7L3 17	44191805	44200113	-	5301			
protein_coding	ataxin 7 like 3 [Source:HGNC	Symbol;Acc:HGNC:25416]					
	-	1358	1953	2021	2222	2262	2319

14.009953	16.24345453	17.6608241	20.26690664		
18.5948806	20.42156308				
ENSG00000096060	688.3921971	592.321779	798.861306		
569.5958519	312.5400781	587.7480962	693.1917607		
489.961342	0.501125682	0.040379287	0.162647545	FKBP5	
6	35573585	35728583	-	10628	
protein_coding	FK506 binding protein 5 [Source:HGNC				
Symbol;Acc:HGNC:3721]	-	595	639	817	567
599	3.061682365	2.650838505	3.561008141		342
2.579483354	1.402274892	2.631002813			
ENSG00000170442	1.156961676	38.00499677	36.1785414		
8.036625776	4.569299387	0	25.11349995	4.201975054	
2.584286444	0.040387917	0.162647545	KRT86	12	
52249300	52309163	+	2394	protein_coding	
keratin 86 [Source:HGNC	Symbol;Acc:HGNC:6463]	-		1	
41	37	8	5	0	0.022843917
0.75508122	0.715945616	0.161572356	0.091013215		0
ENSG00000160193	835.3263299	1063.212959	1055.044491		
1516.913115	1138.669407	1153.909451	984.5279265		
1269.830658	-0.36628564	0.04041185	0.162701068	WDR4	
21	42843094	42879568	-	2738	
protein_coding	WD repeat domain 4 [Source:HGNC	Symbol;Acc:HGNC:12756]			
-	722	1147	1079	1510	1246
14.42110259	18.46987397	18.25536231	26.6651923		
19.83093524	20.05025562				
ENSG00000115677	12371.3912	11534.98	13330.32581		
10716.84047	10049.71707	10764.91546	12412.23233		
10510.491	0.239936433	0.040456845	0.162839332	HDLBP	
2	241227264	241317061	-	12182	
protein_coding	high density lipoprotein binding protein [Source:HGNC				
Symbol;Acc:HGNC:4857]	-	10693	12444	13633	10668
10971	48.00380738	45.03761305	51.84122978		
42.34144043	39.33817678	42.04105982			
ENSG00000273415	27.76708022	36.15109449	14.66697624		
41.1877071	71.28107044	66.72265532	26.19505032		
59.73047762	-1.189220329	0.040515146	0.163031072		
AP000904.1	11	128096042	128183554	+	1959
lincRNA	novel transcript	-	24	39	15
41	78	68	0.669994933	0.87773644	
0.35469844	1.011930387	1.735077046	1.620393575		
ENSG00000213590	9.255693406	7.415609127	0.977798416		0
0	0	5.88303365	0	5.047356128	
0.040518326	1	AL807752.1	9	136935840	
136937161	+	1322	processed_pseudogene	ribosomal	
protein L30 (RPL30)	pseudogene	-	8	8	1
0	0	0.330943034	0.266804094	0.035040557	0
0	0	0			
ENSG00000152409	566.9112211	530.2160526	564.1896861		
985.4912358	598.5782197	665.2641222	553.7723199		
749.7778592	-0.436925702	0.040534474	0.163065924	JMY	

5	79236189	79327215	+	9042	
protein_coding	"junction mediating and regulatory protein, p53 cofactor [Source:HGNC Symbol;Acc:HGNC:28916]"				
			-	490	572
	577	981	655	678	2.963645748
	2.956063549	5.245727435	3.156715153	3.500348028	
ENSG00000198829	0	0	0	12.79403828	
7.849724156	0	6.881254147	-5.204008151	0.040563974	
1	SUCNR1	3	151873643	151884619	+
4181	protein_coding	succinate receptor 1 [Source:HGNC Symbol;Acc:HGNC:4542]			
		-	0	0	0
	8	0	0	0	0.145917193
0.089321469					
ENSG00000241494	384.1112763	431.9592316	478.1434255		
509.3211586	766.7284372	502.382346	431.4046445		
592.8106472	-0.458455069	0.040578041	0.163198239		
AL355032.1	14	101677943	101678380	+	438
processed_pseudogene	ribosomal protein L26-like 1 (RPL26L1)				
pseudogene	-	332	466	489	507
	41.45325958	46.90787554	51.71746205	55.96739141	
	83.47308185	54.56848372			
ENSG00000133858	1219.437606	865.7723656	1067.75587		
781.5618567	939.447954	683.9072171	1050.988614		
801.6390093	0.389781112	0.040600105	0.163225852		ZFC3H1
	12	71609472	71667725	-	9670
protein_coding	zinc finger C3H1-type containing [Source:HGNC Symbol;Acc:HGNC:28328]				
		-	1054	934	1092
	697	5.960859007	4.258477531	5.231167426	778
3.890042439	4.632604645	3.364746421			1028
ENSG00000130669	1159.275599	2584.339781	2430.806863		
2692.269635	2802.808244	2994.669765	2058.140747		
2829.915881	-0.458833053	0.040606261	0.163225852		PAK4
	19	39125770	39182816	+	7115
protein_coding	p21 (RAC1) activated kinase 4 [Source:HGNC Symbol;Acc:HGNC:16059]				
		-	1002	2788	2486
	3052	7.701716529	17.2763432	16.18559524	2680
18.21214528	18.78440613	20.02422243			3067
ENSG00000139438	54.37719876	54.69011731	121.2470036		
149.6821551	124.2849433	138.3513882	76.77143989		
137.4394956	-0.838038771	0.040642441	0.163328339		
FAM222A	12	109714228	109770507	+	3722
protein_coding	family with sequence similarity 222 member A [Source:HGNC Symbol;Acc:HGNC:25915]				
		-	47	59	124
	149	136	141	0.690583507	0.698891246
1.543290818	1.935579956	1.592286222	1.768433689		
ENSG00000224273	5.784808379	6.488657986	0	27.12361199	
	5.483159264	33.36132766	4.091155455	21.98936631	
	-2.429307626	0.040678533	0.163430417	AC005077.2	
	7	76108434	76132187	-	690
transcribed_unprocessed_pseudogene	pseudogene similar to part of RAB guanine nucleotide exchange factor (GEF) 1 RABGEF1				
		-			5

0.447283531	7	0	27	6	34	0.396292293		
ENSG0000011422	4607.021393		1.891977163	4936.014825	0.378931542	2.300254358		
4662.247528	5957.452541		5750.90416	4386.63752				
5456.868076	-0.315024053		0.040713675	0.163522616			PLAUR	
19	43646095		43670547	-	4457			
protein_coding	"plasminogen activator, urokinase receptor [Source:HGNC Symbol;Acc:HGNC:9053]"							
4641	6519	5861	48.85998557	52.67577525	3982	5325	3699	
38.44537957	50.34660042		63.73778174	61.38681813				
ENSG00000180481	12.72657843		14.83121825	1.955596832				
59.2701151	30.15737595		14.71823279	9.83779784				
34.71524128	-1.820546199		0.04072722	0.163522616				
GLIPR1L2	12	75391070	75432688	+			3790	
protein_coding	GLIPR1 like 2 [Source:HGNC Symbol;Acc:HGNC:28592]							
15	0.158726042		0.186129294	0.02444518	2	59	33	
0.752686312	0.379431452		0.184755802					
ENSG00000279412	23.13923351		47.27450818	31.28954932				
96.43950931	45.69299387		75.553595	33.901097				
72.56203273	-1.091720954		0.040742908	0.163522616				
AC020763.3	16	70713987	70716890	+			2904	
TEC	novel transcript							
96	50	77	0.376641435	0.774296903	20	51	32	
0.510453072	1.598364545		0.750294892	1.23777056				
ENSG00000178440	2.313923351		0.926951141	10.75578258				
35.16023777	9.138598774		23.54917247	4.665552357				
22.616003	-2.270920498		0.040744269	0.163522616				
LINC00843	10	49972763	49982053	+			711	
lincRNA	long intergenic non-protein coding RNA 843 [Source:HGNC Symbol;Acc:HGNC:45009]							
35	10	24	0.153834983	0.062010375	2	1	11	
0.716680421	2.380124419		0.612899119	1.57575131				
ENSG00000271367	3.470885027		5.561706845	7.822387329			0	
0	0	5.618326401	0	4.984755262				
0.040811665	1	AL034374.1	6	53350158				
53350705	+	548	lincRNA novel transcript	-				
3	6	8	0	0	0	0.299388703		
0.4827304		0.676257172	0	0	0			
ENSG00000198517	404.9365865		814.7900528	908.3747286				
988.5049705	916.601457		1113.679615	709.3671226				
1006.262014	-0.50303991		0.04089356	0.164078703			MAFK	
7	1530714	1543043	+	4458	protein_coding		MAF	
bZIP	transcription factor K [Source:HGNC Symbol;Acc:HGNC:6782]							
TF_bZIP	350	879	929	984	1003	1135	4.29361098	
	8.693262004		9.653351179	10.6722564			9.804364903	
	11.88507244							
ENSG00000148219	42.807582		47.27450818	57.69010655				
100.4578222	81.33352909		88.30939675	49.25739891				
90.03358268	-0.868210596		0.040989822	0.164421783			ASTN2	

9	116425225	117415070	-	8290	
protein_coding	astrotactin 2 [Source:HGNC Symbol;Acc:HGNC:17021]				
-	37	51	59	100	89 90
0.244085458	0.271237419	0.329685568	0.583239174		
0.46783647	0.506796976				
ENSG00000117481	1058.619933	1075.263323	936.7308827		
1402.391198	1156.032745	1275.580175	1023.538046		
1278.001373	-0.32023118	0.04101638	0.164485153		NSUN4
1	46340177	46365152	+	8468	
protein_coding	NOP2/Sun RNA methyltransferase family member 4				
[Source:HGNC Symbol;Acc:HGNC:31802]	-		915	1160	958
1396	1265	1300	5.90928529	6.039640627	
5.240673645	7.970871089	6.509809412	7.166523656		
ENSG00000182013	244.1189136	287.3548537	288.4505328		
412.8816493	354.5776324	357.1624491	273.3081		
374.8739103	-0.454610373	0.041051327	0.164582122		PNMA8A
19	46466491	46471563	-	3696	
protein_coding	PNMA family member 8A [Source:HGNC				
Symbol;Acc:HGNC:25578]	-	211	310	295	411 388
364	3.122088471	3.697972603	3.697366562		
5.37664145	4.574655144	4.597433509			
ENSG00000108823	3.470885027	6.488657986	6.844588913		0
0	0	5.601377309	0	4.980609161	
0.041070072	1	SGCA	17	50164214	50175931
+	2452	protein_coding	sarcoglycan alpha	[Source:HGNC	
Symbol;Acc:HGNC:10805]	-	3	7	7	0 0
0	0.066910689	0.125866899	0.132245234		0
0	0				
ENSG00000105699	6.941770054	21.31987624	25.42275882		
46.21059821	60.31475191	34.34254318	17.8948017		
46.95596443	-1.38339932	0.041075394	0.164635435		LSR
19	35248330	35267964	+	2916	
protein_coding	lipolysis stimulated lipoprotein receptor [Source:HGNC				
Symbol;Acc:HGNC:29572]	-	6	23	26	46 66
35	0.112527441	0.347755714	0.413036359		
0.762731229	0.986313582	0.560307661			
ENSG00000259015	0	6.488657986	5.866790497	16.07325155	
30.15737595	15.69944831	4.118482828	20.64335861		
-2.303452571	0.041095123	0.164649417	AL442663.4		
14	72960595	72961993	+	289	
processed_pseudogene	chromosome 17 open reading frame 98 (C17orf98)				
pseudogene	-	0	7	6	16 33 16
0	1.067908775	0.961735979	2.676845813		
4.975934957	2.584450245				
ENSG00000168803	411.8783566	278.0853423	311.9176948		
272.2406982	231.206549	180.5436556	333.9604645		
227.9969676	0.549402138	0.041108125	0.164649417		ADAL
15	43330657	43354555	+	5735	
protein_coding	adenosine deaminase like [Source:HGNC				
Symbol;Acc:HGNC:31853]	-	356	300	319	271 253

184	3.394777292	2.306331818	2.576675432	
2.284741578	1.922408582	1.497719336		
ENSG00000132405	440.8023984	633.1076292	627.7465832	
735.3512585	751.1928192	756.5171655	567.2188703	
747.6870811	-0.397140705	0.041111194	0.164649417	
TBC1D14 4	6909242 7033118 +	6241	protein_coding	TBC1
domain family member 14 [Source:HGNC Symbol;Acc:HGNC:29246]				-
381	683	642	732	822
4.825035123	4.76522379	5.670979991	5.739528711	
5.766950601				
ENSG00000168906	6364.446178	6217.061302	5697.631371	
6907.479855	7431.508523	7247.257827	6093.046284	
7195.415402	-0.239990332	0.041215381	0.16498304	MAT2A
2	85539165	85545280	+ 4487	
protein_coding methionine adenosyltransferase 2A [Source:HGNC Symbol;Acc:HGNC:6904]	-	5501 6707	5827 6876	8132
7386	67.0471448	65.90315327	60.15772504	
74.09365434	78.97686642	76.84210788		
ENSG00000160877	1677.59443	2554.677344	3227.712572	
3216.659467	3144.591838	3452.897413	2486.661449	
3271.382906	-0.395253066	0.041216081	0.16498304	NACC1
19	13118103	13141141	+ 4474	
protein_coding nucleus accumbens associated 1 [Source:HGNC Symbol;Acc:HGNC:20967]	-	1450 2756	3301 3202	3441
3519	17.72420381	27.15921365	34.17842142	
34.60402079	33.51562254	36.71718037		
ENSG00000206989	2.313923351	0 0	25.11445555	
2.741579632	3.924862078	0.771307784		
10.59363242	-3.861455928	0.041223429	1	SNORD63 5
138561043	138561110	-	68	snoRNA "small
nucleolar RNA, C/D box 63 [Source:HGNC Symbol;Acc:HGNC:10220]"				-
2	0	0	25	3
0	0	17.77592923	1.922520324	2.745978386
ENSG00000241837	500.9644056	468.1103261	633.6133737	
260.1857595	412.1508047	459.2088631	534.2293685	
377.1818091	0.501906977	0.041237069	0.165020503	ATP5P0
21	33903453	33915980	- 3336	
protein_coding ATP synthase peripheral stalk subunit OSCP [Source:HGNC Symbol;Acc:HGNC:850]		-	433 505	648
259	451	468	7.098336233	6.674201191
8.998112521	3.75383292	5.891272313	6.548862121	
ENSG00000134452	1103.741439	1174.447095	1019.843748	
1424.491919	1324.182962	1315.810012	1099.344094	
1354.828298	-0.301328004	0.04124703	0.165020503	FBH1
10	5890203 5937594 +	6676	protein_coding	F-box
DNA helicase 1 [Source:HGNC Symbol;Acc:HGNC:13620]				954
1267	1043	1418	1449	1341
8.367471559	7.237197695	10.26977951	9.458247084	
9.376882753				
ENSG00000257167	39.33669697	152.0199871	158.4033434	

69.31589732	26.50193645	66.72265532	116.5866758	
54.18016303	1.10987749	0.041290572	0.165151484	TMPO-
AS1 12	98512973	98516422	- 3357	
antisense	TMPO antisense RNA 1 [Source:HGNC			
Symbol;Acc:HGNC:44158]	-	34 164	162 69	29
68	0.553888424	2.153904605	2.235456015	
0.99379994	0.376448226	0.945591604		
ENSG0000066926	698.8048521	627.5459224	855.5736141	
514.3440497	674.4285895	403.2795785	727.3081295	
530.6840726	0.454234009	0.041324925	0.165214599	FECH
18	57548283	57586772	- 4473	
protein_coding	ferrochelatase [Source:HGNC	Symbol;Acc:HGNC:3647]		
-	604 677	875 512	738 411	
7.384698235	6.673040005	9.06174028	5.534422105	
7.189787612	4.289325057			
ENSG00000189171	408.4074715	333.7024107	488.8992081	
249.1353991	284.2104219	342.4442163	410.3363634	
291.9300124	0.490872843	0.041327967	0.165214599	
S100A13 1	153618787	153631360	- 2216	
protein_coding	S100 calcium binding protein A13 [Source:HGNC			
Symbol;Acc:HGNC:10490]	-	353 360	500 248	311
349	8.71163482	7.162534101	10.45207949	
5.411069864	6.115743054	7.351935813		
ENSG00000165804	267.2581471	511.6770297	425.342311	
482.1975466	595.8366401	633.8652256	401.4258293	
570.6331374	-0.505587322	0.041369322	0.165336685	ZNF219
14	21090046	21104722	- 6679	
protein_coding	zinc finger protein 219 [Source:HGNC			
Symbol;Acc:HGNC:13011]	zf-C2H2	231 552	435 480	652
646	1.891451672	3.643859241	3.017034451	
3.474809582	4.253973205	4.515097265		
ENSG00000114062	2414.579017	2117.156406	2004.486753	
2911.267687	2747.976651	2360.80454	2178.740725	
2673.349626	-0.295454152	0.041385705	0.165358932	UBE3A
15	25333728	25439056	- 12813	
protein_coding	ubiquitin protein ligase E3A [Source:HGNC			
Symbol;Acc:HGNC:12496]	-	2087 2284	2050 2898	3007
2406	8.907715456	7.859216117	7.411489381	
10.93575499	10.22683384	8.765785369		
ENSG00000137275	1810.645022	1745.448998	1677.902082	
1949.886329	2494.837465	2007.566953	1744.665368	
2150.763582	-0.302199422	0.041405009	0.165392832	RIPK1
6	3063991 3115187 +	4231		
receptor interacting serine/threonine kinase 1 [Source:HGNC				
Symbol;Acc:HGNC:10019]	-	1565 1883	1716 1941	2730
2046	20.22860943	19.62190879	18.78783399	
22.18113303	28.11759813	22.57400619		
ENSG00000214485	5953.724783	3240.621188	3491.718144	
2931.359252	3637.162312	2979.951533	4228.688039	
3182.824366	0.409510048	0.041436439	0.165475141	RPL7P1

5	150094302	150095048	+	747		
processed_pseudogene	ribosomal	protein L7	pseudogene 1	[Source:HGNC		
Symbol;Acc:HGNC:10367]	-	5146	3496	3571	2918	3980
3037	376.7418732	206.3406433		221.4479704		
188.8712707	232.1780012	189.7886453				
ENSG00000182544	392.2100081	518.1656877		483.0324176		
608.7744025	541.9189073	706.475174		464.4693711		
619.0561613	-0.413111461	0.041469861		0.165546598		MFSD5
12	53251251	53254405	+	2581		
protein_coding	major facilitator	superfamily	domain	containing	5	
[Source:HGNC	Symbol;Acc:HGNC:28156]	-	339	559	494	
606	593	720	7.183008931	9.548997097		
8.866279139	11.35235167	10.01210249		13.0223849		
ENSG00000153707	102.9695891	67.66743328		135.9139798		
63.28842799	37.46825497	61.81657773		102.1836674		
54.1910869	0.915888099	0.041475991		0.165546598		PTPRD
9	8314246	10612723	-	11165		protein_coding
"protein tyrosine phosphatase, receptor	type D	[Source:HGNC				
Symbol;Acc:HGNC:9668]"	-	89	73	139	63	41
63	0.435939269	0.288269099		0.57671139		
0.272824293	0.160023486	0.263407331				
ENSG00000144278	222.1366417	243.78815		218.0490468		
137.6272164	197.3937335	110.8773537		227.9912795		
148.6327679	0.616335568	0.041507884		0.165630649		
GALNT13	2	153871913	154453849	+	6520	
protein_coding	polypeptide N-acetylgalactosaminyltransferase	13				
[Source:HGNC	Symbol;Acc:HGNC:23242]	-	192	263	223	
137	216	113	1.610454079	1.778451847		
1.584381355	1.015954335	1.443659434		0.809052834		
ENSG00000237418	9.255693406	2.780853423		4.888992081		0
0	0	5.641846303	0	4.985543294		
0.041521964	1	AC069257.2	3	196298061		
196298215	-	155	processed_pseudogene	ribosomal		
protein L39 (RPL39)	pseudogene	-	8	3	5	0
0	0	2.822623816	0.853342772	1.494310204		
0	0	0				
ENSG00000283265	3.470885027	12.97731597		11.73358099		0
0	1.962431039	9.393927331		0.65414368		
3.85798171	0.041535962	1	AL356234.3	6		
137693068	137700415	+	1160	lincRNA	novel	
transcript	-	3	14	12	0	2
0.141435353	0.532113166	0.479209824		0		0
0.080485573						
ENSG00000106153	6426.922109	8139.557968		7945.58993		
8270.692502	9151.392812	9880.840281		7504.023335		
9100.975198	-0.278223825	0.041550547		0.165757623		CHCHD2
7	56101569	56106576	-	1132		
protein_coding	coiled-coil-helix-coiled-coil-helix	domain	containing	2		
[Source:HGNC	Symbol;Acc:HGNC:21645]	-	5555	8781	8126	
8233	10014	10070	268.3690008	342.0042542		

332.5315425	351.6518488	385.4958952	415.2685864	
ENSG00000264978	0	0	1.955596832	20.09156444
6.397019142	2.943646558	0.651865611		
9.81074338	-3.885159902	0.041593132	1	RN7SL630P
12	93831076	93831372	+	297
misc_RNA	"RNA, 7SL, cytoplasmic 630, pseudogene [Source:HGNC			
Symbol;Acc:HGNC:46646]"	-	0	0	2 20 7
3	0	0	0.311943544	3.255927777
1.027070342	0.471531642			
ENSG00000130985	5745.471682	5824.034018	7020.592628	
5467.919262	4498.018317	5326.03784	6196.699443	
5097.32514	0.281881378	0.041593882	0.165887208	UBA1
X	47190861	47215128	+	6437
protein_coding	ubiquitin like modifier activating enzyme 1			
[Source:HGNC	Symbol;Acc:HGNC:12469]	-	4966	6283 7180
5443	4922	5428	42.1908154	43.03457403
51.67058647	40.8842506	33.32089806	39.36428484	
ENSG00000268379	0	1.853902282	0	9.041203998
12.79403828	5.887293117	0.617967427		
9.240845133	-3.841384922	0.041647359	1	AC025588.1
19	57175233	57177921	+	2072
processed_pseudogene	pentatricopeptide repeat domain 3 pseudogene			
-	0	2	0	9 14 6 0
0.042557313	0	0.21001677	0.29444005	
0.135178473				
ENSG00000106665	952.1794591	1205.036483	1457.897438	
1728.87912	1489.5916	1437.480736	1205.037794	
1551.983819	-0.364318374	0.041749963	0.166466269	CLIP2
7	74289475	74405943	+	7315
protein_coding	CAP-Gly domain containing linker protein 2			
[Source:HGNC	Symbol;Acc:HGNC:2586]	-	823	1300 1491
1721	1630	1465	6.15290511	7.835432611
9.44203854	11.37542827	9.71028265	9.349089774	
ENSG00000085872	1935.596883	2946.777677	2871.793948	
3302.048616	2902.418971	3704.088586	2584.722836	
3302.852057	-0.353203181	0.041859786	0.16686064	CHERP
19	16517889	16542530	-	6113
protein_coding	calcium homeostasis endoplasmic reticulum protein			
[Source:HGNC	Symbol;Acc:HGNC:16930]	-	1673	3179 2937
3287	3176	3775	14.96705167	22.9282068
22.2562508	25.99839422	22.64043129	28.82760721	
ENSG00000091010	9.255693406	0	10.75578258	0 0
0	6.670491995	0	5.228420716	0.041876947
1	POU4F3	5	146338839	146341722
2569	protein_coding	POU class 4 homeobox 3 [Source:HGNC		
Symbol;Acc:HGNC:9220]	Pou	8	0	11 0 0
0	0.170302332	0	0.198349467	0 0
0				
ENSG00000168884	985.7313477	1192.059167	1205.625447	
1492.803238	1281.231548	1450.236538	1127.805321	

1408.090441	-0.319472322	0.041882246	0.166906647	TNIP2
4	2741648	2756376	-	2686
TNFAIP3 interacting protein 2 [Source:HGNC Symbol;Acc:HGNC:19118]			protein_coding	
-	852	1286	1233	1486
17.3471566	21.10906116	21.26471292	1402	1478
22.74576789	25.68706363		26.74939831	
ENSG00000187801	83.30124065	84.35255382	32.26734773	
82.37541421	187.3412749	115.7834313	66.64038073	
128.5000401	-0.949638515	0.041914579	0.166991967	ZFP69B
1	40450102	40463718	+	2386
protein_coding ZFP69 zinc finger protein B [Source:HGNC Symbol;Acc:HGNC:28053]	zf-C2H2	72	91	33
118	1.650276707	1.681531127	0.640687066	82
1.661669428	3.744053272	2.308647377		205
ENSG00000141367	19656.77887	16863.09515	17288.4538	
15909.5053	14366.79113	15207.85934	17936.10927	
15161.38526	0.242426807	0.041927914	0.167001571	CLTC
17	59619689	59696956	+	11836
protein_coding clathrin heavy chain [Source:HGNC Symbol;Acc:HGNC:2092]	-	16990	18192	17681
15499	78.50243629	67.7656251	69.19971781	15721
64.69477052	57.88070456	61.12864337		
ENSG00000277481	5.784808379	9.269511408	1.955596832	0
0	0	5.669972206	0	4.996953633
0.041944472	1	PKD1L3	16	71929538
-	5199	protein_coding "polycystin 1 like 3, transient receptor potential channel interacting [Source:HGNC Symbol;Acc:HGNC:21716]"	-	5
0	0.052595053	0.084803571	0.017820202	10
0	0			2
ENSG00000088205	4440.418911	4552.257053	4228.000351	0
3446.70788	3815.364988	3860.101854	4406.892105	
3707.391574	0.24931711	0.041948642	0.167017286	DDX18
2	117814650	117832379	+	7851
protein_coding DEAD-box helicase 18 [Source:HGNC Symbol;Acc:HGNC:2741]	-	3838	4911	4324
3934	26.73466249	27.5790254	25.51309603	3431
21.12987643	23.17341825	23.39135683		4175
ENSG00000133433	129.5797077	123.2845017	224.8936357	
85.38914887	95.95528713	105.9712761	159.252615	
95.77190403	0.734210554	0.041953711	0.167017286	GSTT2B
22	23957414	23961186	-	1099
protein_coding glutathione S-transferase theta 2B (gene/pseudogene) [Source:HGNC Symbol;Acc:HGNC:33437]	-		112	133
85	105	108	5.573333649	5.335657038
9.694660375	3.73957674	4.163419811	4.587457976	
ENSG00000054611	822.5997514	957.5405285	919.1305112	
1119.100139	1163.343624	1075.412209	899.7569304	
1119.285324	-0.314466537	0.041978311	0.167064668	
TBC1D22A	22	46762617	47175699	+
				5315

protein_coding TBC1 domain family member 22A [Source:HGNC						
Symbol;Acc:HGNC:1309]	-	711	1033	940	1114	1273
1096	7.315786868	8.569017122	8.192699781			
10.13405223	10.43719344	9.626165434				
ENSG00000247950	1.156961676	20.3929251	11.73358099			
43.19686355	54.83159264	17.66187935	11.09448926			
38.56344518	-1.783340601	0.04198747	0.167064668			
SEC24B-AS1	4	109347475	109433817	-		2584
antisense SEC24B antisense RNA 1 [Source:HGNC						
Symbol;Acc:HGNC:44003]	-	1	22	12	43	60
18	0.021164217	0.375373949	0.215125153			
0.804594691	1.011852802	0.325181651				
ENSG00000037897	329.7340776	376.3421632	386.2303744			
548.4997092	477.034856	435.6596906	364.102205			
487.064752	-0.418841142	0.042064931	0.167329326			METTL1
12	57768471	57772793	-	2621		
protein_coding methyltransferase like 1 [Source:HGNC						
Symbol;Acc:HGNC:7030]	-	285	406	395	546	522
444	5.946652378	6.829563865	6.981239391			
10.07225792	8.678847951	7.907914862				
ENSG00000196584	675.6656186	581.1983653	624.8131879			
474.1609208	554.7129456	386.5989147	627.225724			
471.8242604	0.40986767	0.042136253	0.167569432			XRCC2
7	152644779	152676165	-	4853		
protein_coding X-ray repair cross complementing 2 [Source:HGNC						
Symbol;Acc:HGNC:12829]	-	584	627	639	472	607
394	6.581081491	5.696278408	6.099482964			
4.702544607	5.450508202	3.789936787				
ENSG00000238793	8.09873173	3.707804563	4.888992081			0
0	0	5.565176125	0	4.966824433		
0.042172847	1	SNORD124	17	40027542		
40027645	-	104	snoRNA "small nucleolar RNA, C/D box			
124 [Source:HGNC	Symbol;Acc:HGNC:33563]"	-	7	4		
5	0	0	0	3.680945721	1.695745253	
2.227096938	0	0	0			
ENSG00000236031	8.09873173	3.707804563	4.888992081			0
0	0	5.565176125	0	4.966824433		
0.042172847	1	AL591721.1	1	243545532		
243548329	+	751	antisense	novel transcript		
-	7	4	5	0	0	
0.509744814	0.234830235	0.308412892	0	0	0	
ENSG00000243943	741.6124341	540.4125151	608.1906149			
501.2845328	508.1060918	410.1480871	630.0718547			
473.1795706	0.411997085	0.042184947	0.167719452			ZNF512
2	27582969	27623215	+	4398		
protein_coding zinc finger protein 512 [Source:HGNC						
Symbol;Acc:HGNC:29380]	zf-C2H2	641	583	622	499	556
418	7.970719339	5.844498987	6.551452785			
5.485882951	5.509068397	4.436771807				
ENSG00000196109	0	0.926951141	0	9.041203998		

6.397019142	5.887293117	0.308983714					
7.108505419	-4.287193981	0.042202432	1	ZNF676	19		
22179091	22215775	-	3088	protein_coding			
zinc finger protein 676 [Source:HGNC Symbol;Acc:HGNC:20429]							
zf-C2H2	0	1	0	9	7	6	0
0.014277648	0	0.140917988	0.098782348				
0.090702654							
ENSG00000280169	0	0.926951141	0	12.05493866	0		
13.73701727	0.308983714	8.597318646	-4.560317391				
0.042204715	1	AL136526.1	13	100537365			
100539567	+	2203	antisense	"novel			
transcript, antisense to GGACT"							
0	14	0	0.020013335	0	0.263371008		
0	0.296660398						
ENSG00000068078	9.255693406	4.634755704	2.933395248	0			
0	0	5.607948119	0	4.977230131			
0.042208593	1	FGFR3	4	1793293	1808872	+	4848
protein_coding fibroblast growth factor receptor 3							
[Source:HGNC Symbol;Acc:HGNC:3690]							
0	0	0	0.09024478	0.045471717			
0.028665604	0	0	0				
ENSG00000145545	735.8276258	655.3544566	738.2378042				
513.3394715	592.1812006	555.367984	709.8066288				
553.629552	0.357939189	0.042208758	0.167750617				SRD5A1
5	6633343	6674386	+	7715	protein_coding		
steroid 5 alpha-reductase 1 [Source:HGNC Symbol;Acc:HGNC:11284]							
636	707	755	511	648	566	4.508332077	-
4.040335611	4.533289736	3.202478231	3.660139796				
3.424731565							
ENSG00000259330	432.7036667	372.6343586	492.8104017				
252.1491337	350.0083331	335.5757077	432.7161424				
312.5777248	0.468497296	0.042214733	0.167750617				INAFM2
15	40323664	40326715	+	3052			
protein_coding InaF motif containing 2 [Source:HGNC							
Symbol;Acc:HGNC:35165]							
342	6.701650664	5.807316312	7.649771501				383
3.976403146	5.468558249	5.231034841					
ENSG00000112303	3.470885027	8.342560268	4.888992081	0			
0	0	5.567479125	0	4.972266564			
0.04221832	1	VNN2	6	132743870	132763459		
-	2633	protein_coding	vanin 2	[Source:HGNC			
Symbol;Acc:HGNC:12706]							
0	0.062311056	0.150704288	0.087967369	0			0
0	0						
ENSG00000279675	3.470885027	8.342560268	4.888992081	0			
0	0	5.567479125	0	4.972266564			
0.04221832	1	AC080100.1	11	40107244			
40112599	-	5356	TEC	TEC	-	3	9
5	0	0	0	0.030632003	0.074085958		
0.043244601	0	0	0				

ENSG00000111639	1217.123683	1162.396731	1211.492238			
756.4474012	893.7549601	1140.172434	1197.004217			
930.1249316	0.36381536	0.042247187	0.167835953	MRPL51		
12	6491886	6493841	-	1551	protein_coding	
mitochondrial ribosomal protein L51 [Source:HGNC						
Symbol;Acc:HGNC:14044]	-	1052	1254	1239	753	978
1162	37.09357184	35.64673	37.00513257			
23.47385377	27.47803388	34.97360221				
ENSG00000145779	446.5872068	353.1683847	316.8066868			
236.0758822	326.2479762	215.8674143	372.1874261			
259.3970909	0.519046705	0.042344689	0.168179596			
TNFAIP8	5	119268692	119399688	+	9591	
protein_coding TNF alpha induced protein 8 [Source:HGNC						
Symbol;Acc:HGNC:17260]	-	386	381	324	235	357
220	2.200990289	1.751439107	1.564889134			
1.184691269	1.622045091	1.07079128				
ENSG00000261061	238.3341052	223.3952249	293.3395248			
203.9293791	155.3561792	154.0508366	251.6896183			
171.1121316	0.557378926	0.04237617	0.168260914			
AC092718.4	16	81030770	81031485	+	716	
sense_intronic novel transcript						
300	203	170	157	15.73435378	14.84013932	
19.40933644	13.70831995	10.34652465	10.2360563			
ENSG00000196372	576.1669145	748.0495707	677.6143024			
875.9922096	723.7770229	1027.332649	667.2769292			
875.7006271	-0.391095102	0.042434296	0.168402422	ASB13		
10	5638867	5666595	-	3003	protein_coding	
ankyrin repeat and SOCS box containing 13 [Source:HGNC						
Symbol;Acc:HGNC:19765]	-	498	807	693	872	792
1047	9.069194653	11.84819411	10.6900653			
14.03984681	11.49286875	16.27561415				
ENSG00000277152	13.88354011	15.75816939	35.20074298			
10.04578222	0	0	21.61415083	3.348594073		
2.703143401	0.042436851	0.168402422	AC110048.2	15		
66860303	66867023	+	6721	lincRNA novel		
transcript						
0.097643213	0.11151903	0.248125307	0.071939484			
0	0					
ENSG00000142409	736.9845874	1314.416718	1382.60696			
1523.945163	1372.617536	1746.563625	1144.669422			
1547.708774	-0.434232482	0.042450277	0.168402422	ZNF787		
19	56087366	56121280	-	3671		
protein_coding zinc finger protein 787 [Source:HGNC						
Symbol;Acc:HGNC:26998]	zf-C2H2	637	1418	1414	1517	1502
1780	9.489640509	17.03043748	17.84298378			
19.98031877	17.82970452	22.63506019				
ENSG00000117682	975.3186926	892.6539486	768.5495551			
1245.676995	994.2795466	1109.754753	878.8407321			
1116.570431	-0.345679237	0.042455873	0.168402422	DHDDS		
1	26432282	26471294	+	5596		

protein_coding	dehydrodolichyl diphosphate synthase subunit							
[Source:HGNC Symbol;Acc:HGNC:20603]		-	843	963	786			
1240	1088	1131	8.238432382	7.587217592				
6.506497931	10.71384097		8.472465075	9.43476169				
ENSG00000207955	1.156961676	0	0	7.032047554				
8.224738897	5.887293117		0.385653892					
7.048026523	-4.275596506		0.042475186	1	AL359091.1			
9	128392007		128393510	-	1504			
lincRNA novel transcript			-	1	0	0	7	
9	6	0.036361926	0	0	0	0.2250357		
0.260767384	0.186229917							
ENSG00000259138	0	0	0	13.05951689	7.310879019			
0	0	6.790131969		-5.182946051	0.042486209			
1	AL049780.2	14		75127153	75136930			
+	367	antisense		"novel transcript, antisense				
to NEK9 and TMED10"	-	0	0	0	13	8		
0	0	0	0	1.712688985	0.949910133			
0								
ENSG00000151287	537.9871792		510.7500786	494.7659986				
397.8129759	371.9409701		410.1480871	514.5010855				
393.3006777	0.387417918		0.042512319	0.168582574	TEX30			
13	102765990		102773811	-	2154			
protein_coding	testis expressed 30	[Source:HGNC						
Symbol;Acc:HGNC:25188]	-	465	551	506	396	407		
418	11.80597792		11.27820172	10.88196372				
8.888954915	8.233932606		9.058924052					
ENSG00000127507	23.13923351		3.707804563	2.933395248				
2.009156444	0	0	9.926811109	0.669718815				
3.908134609	0.042559973	1	ADGRE2	19	14732393			
14778541	-	8622	protein_coding	adhesion G				
protein-coupled receptor E2	[Source:HGNC	Symbol;Acc:HGNC:3337]	-					
20	4	3	2	0	0	0.126857658		
0.020454362	0.016118169		0.011215618	0	0			
ENSG00000064042	0	0.926951141		2.933395248	13.05951689			
18.27719755	3.924862078		1.28678213	11.75385884				
-3.164989729	0.042568931	1	LIMCH1	4				
41359607	41700044	+	10862	protein_coding	LIM			
and calponin homology domains 1	[Source:HGNC	Symbol;Acc:HGNC:29191]						
-	0	1	3	13	20	4	0	
0.004059048	0.012794223		0.057867507	0.08023776				
0.017190806								
ENSG00000085788	2083.687978		1960.501663	2337.916013				
1739.929481	1777.457462		1744.601194	2127.368551				
1753.996045	0.27839678		0.042588922	0.168758176	DDHD2			
8	38225218		38275558	+	10686			
protein_coding	DDHD domain containing 2	[Source:HGNC						
Symbol;Acc:HGNC:29106]	-	1801	2115	2391	1732	1945		
1778	9.217077851		8.726280317	10.36494166				
7.83671286	7.931640717		7.767166637					
ENSG00000179051	5886.621006		6557.25237	8277.063593				

6025.460176	5145.94497	5655.726254	6906.97899	
5609.0438	0.300444444	0.042591255	0.168758176	RCC2
1	17406760	17439724	- 4126	
protein_coding	regulator of chromosome condensation 2 [Source:HGNC			
Symbol;Acc:HGNC:30297]	-	5088 7074	8465 5998	5631
5764	67.43922825	75.59094763	95.03863599	
70.2875579	59.47232286	65.21399177		
ENSG00000176783	1381.412241	1274.557819	1277.004732	
1032.706412	1105.770452	1068.543701	1310.991597	
1069.006855	0.294027751	0.042599011	0.168758176	RUFY1
5	179550558	179610026	+ 5911	
protein_coding	RUN and FYVE domain containing 1 [Source:HGNC			
Symbol;Acc:HGNC:19760]	-	1194 1375	1306 1028	1210
1089	11.04684042	10.25594532	10.23492521	
8.40878739	8.920372881	8.600287236		
ENSG00000118363	2242.191728	2235.806152	2241.11397	
1941.849703	1810.356417	1857.440978	2239.70395	
1869.882366	0.260420939	0.042600759	0.168758176	SPCS2
11	74949247	74979031	+ 2982	
protein_coding	signal peptidase complex subunit 2 [Source:HGNC			
Symbol;Acc:HGNC:28962]	-	1938 2412	2292 1933	1981
1893	35.54191684	35.66182975	35.6048721	
31.341908	28.94912451	29.63391362		
ENSG00000241369	0 0	24.4449604	0 0 0	
8.148320135	0	5.521095169	0.042616337	1
LINC01192	3	163127923	163361563	-
3079	lincRNA long intergenic non-protein coding RNA 1192			
[Source:HGNC Symbol;Acc:HGNC:37197]	-	0	0	25
0	0	0	0.376125498	0
0	0			
ENSG00000131668	0 0	0 17.07782977	3.65543951	
0	0	6.911089761	-5.207522534	0.042626989
1	BARX1	9 93951622	93955372	-
1777	protein_coding BARX homeobox 1 [Source:HGNC			
Symbol;Acc:HGNC:955]	Homeobox	0	0 0	17
4	0 0	0 0	0.462554287	
0.098091452	0			
ENSG00000165716	26.61011854	14.83121825	16.62257307	
106.4852915	18.27719755	35.3237587	19.35463662	
53.36208259	-1.466406088	0.042644741	0.168888643	FAM69B
9	136712570	136724050	+ 2704	
protein_coding	family with sequence similarity 69 member B			
[Source:HGNC Symbol;Acc:HGNC:28290]	-	23	16	17
106	20 36	0.465174459	0.260883885	
0.291235753	1.895397897	0.322316031	0.621501025	
ENSG00000145388	780.9491311	798.1049323	765.6161599	
1001.564487	994.2795466	921.3613728	781.5567411	
972.4018023	-0.315182659	0.042662448	0.168915008	
METTL14	4 118685368	118715433	+ 6862	
protein_coding	methyltransferase like 14 [Source:HGNC			

Symbol;Acc:HGNC:29330]	-	675	861	783	997	1088
939	5.379572587	5.532053809	5.285833805			
7.024989203	6.909343422	6.387941266				
ENSG0000011198	1228.6933	956.6135774	968.020432			
1232.617478	1448.467906	1293.242055	1051.109103			
1324.775813	-0.334786826	0.042694216	0.168997016			ABHD5
3	43690108	43734371	+	7549		
protein_coding	abhydrolase domain containing 5					
Symbol;Acc:HGNC:21396]	-	1062	1032	990	1227	1585
1318	7.693603562	6.027319728	6.075027176			
7.858802124	9.149522699	8.150270461				
ENSG00000227619	10.41265508	4.634755704	1.955596832			0
0	0	5.667669206	0	4.991754421		
0.042716747	1	AL391056.1	9	129575409		
129584556	+	2449	lincRNA novel transcript (FLJ20378)			
-	9	5	2	0	0	
0.200977962	0.09001506	0.037830638	0	0		0
ENSG00000177738	105.2835125	167.7781565	138.8473751			
154.7050462	221.1540903	275.721561	137.3030147			
217.1935658	-0.659480297	0.04272692	0.169002426			
AC025171.1	5	43014414	43067419	-		2784
sense_overlapping	uncharacterized LOC648987					
gene;Acc:648987]	-	91	181	142	154	242
281	1.78758571	2.866442946	2.36277066			
2.674562225	3.787954317	4.711759608				
ENSG00000110497	905.9009921	937.1476034	1111.756799			
1187.411458	1230.055395	1263.805589	984.9351316			
1227.090814	-0.316837114	0.042736338	0.169002426			AMBRA1
11	46396414	46594125	-	7673		
protein_coding	autophagy and beclin 1 regulator 1					
Symbol;Acc:HGNC:25990]	-	783	1011	1137	1182	1346
1288	5.580733406	5.809247976	6.864323178			
7.44823713	7.64431297	7.836041018				
ENSG00000139835	16.19746346	15.75816939	38.13413823			
7.032047554	0	7.849724156	23.36325703	4.96059057		
2.244508701	0.042737464	0.169002426	GRTP1	13		
113324164	113364148	-	2916	protein_coding		
growth hormone regulated TBC protein 1						
Symbol;Acc:HGNC:20310]	-	14	17	39	7	0
8	0.26256403	0.257036832	0.619554539			
0.116067796	0	0.128070323				
ENSG00000132386	215.1948717	217.8335181	332.4514615			
226.0301	119.7156439	141.2950348	255.1599504			
162.3469262	0.653888713	0.042742508	0.169002426			
SERPINF1	17	1761959	1777574	+	3069	protein_coding
serpin family F member 1						
Symbol;Acc:HGNC:8824]	-	186	235	340	225	131
144	3.314444632	3.376019386	5.131974437	3.54476008		
1.860085918	2.19034053					
ENSG00000138777	1250.675571	1261.580503	1187.047277			

777.5435438	1219.089076	840.9017002	1233.101117	
945.8447735	0.382127886	0.042750859	0.169002426	PPA2
4	105369077	105474081	- 4654	
protein_coding	pyrophosphatase (inorganic) 2 [Source:HGNC			
Symbol;Acc:HGNC:28883]	-	1081 1361	1214 774	1334
857	12.7026411	12.89334799	12.08355612	
8.041106205	12.49073655	8.596080597		
ENSG00000240098	0 0	0	12.05493866	8.224738897
0	0	6.75989252	-5.17674503	0.042801864
1	RN7SL351P	11	126245035	126245282
+	248 misc_RNA		"RNA, 7SL, cytoplasmic 351,	
pseudogene [Source:HGNC	Symbol;Acc:HGNC:46367]"	-	0	0
0	12 9	0 0	0 0	
2.339541653	1.581428009	0		
ENSG00000136999	961.4351525	997.3994276	803.7502981	
1038.733882	1173.396083	1278.523822	920.8616261	
1163.551262	-0.337635576	0.042834239	0.16925984	NOV
8	119416306	119424353	+ 2673	
protein_coding	nephroblastoma overexpressed [Source:HGNC			
Symbol;Acc:HGNC:7885]	-	831 1076	822 1034	1284
1303	17.00187339	17.74791216	14.24542185	
18.70349623	20.93267173	22.75576776		
ENSG00000083642	2046.665204	1850.194477	1776.659722	
1846.414772	1306.819625	1322.67852	1891.173135	
1491.970972	0.342083377	0.042838119	0.16925984	PDS5B
13	32586427	32778019	+ 13212	
protein_coding	PDS5 cohesin associated factor B [Source:HGNC			
Symbol;Acc:HGNC:20418]	-	1769 1996	1817 1838	1430
1348	7.322408958	6.660792889	6.370724405	
6.726329816	4.716567675	4.762855032		
ENSG00000196696	123.7948993	107.5263323	101.6910353	
43.19686355	42.03755436	94.19668987	111.004089	
59.81036926	0.892207567	0.042947171	0.169608599	
PDXDC2P-NPIP14P	16	69976297	70065948	-
6114	processed_transcript	nuclear pore complex-		
interacting protein [Source:NCBI	gene;Acc:283970]	-		107
116	104 43	46 96	0.957090611	
0.836501093	0.787971229	0.340051142	0.327861933	
0.73297951				
ENSG00000089737	3521.791341	3693.900296	3572.875413	
4553.75308	4253.103869	4003.359319	3596.189017	
4270.07209	-0.247709813	0.042948576	0.169608599	DDX24
14	94048291	94081245	- 8636	
protein_coding	DEAD-box helicase 24 [Source:HGNC			
Symbol;Acc:HGNC:13266]	-	3044 3985	3654 4533	4654
4080	19.2764354	20.34462317	19.60010352	
25.37898809	23.48401467	22.05431459		
ENSG00000272146	0 13.90426711	5.866790497	0 0	
0	6.590352537	0	5.217668955	0.042969327
1	ARF4-AS1	3	57597715	57600927

	+	597	antisense	ARF4 antisense RNA 1		
[Source:HGNC Symbol;Acc:HGNC:51593]	-	0	15	6		
0	0	0	0	1.107773281	0.465563983	
0	0	0				
ENSG00000171763	433.8606284	505.1883718	466.4098445			
647.9529532	550.1436462	630.921579	468.4862816			
609.6727261	-0.379085624	0.042982608	0.169671412			
SPATA5L1	15	45402331	45421419	+	3406	
protein_coding	spermatogenesis associated 5 like 1					
[Source:HGNC Symbol;Acc:HGNC:28762]	-	375	545	477		
645	602	643	6.021176207	7.054818037		
6.487482379	9.156221442	7.70212292	8.812768565			
ENSG00000223656	9.255693406	25.95463194	6.844588913			
23.10529911	80.41966921	25.51160351	14.01830475			
43.01219061	-1.611870988	0.04298668	0.169671412			
HMGB3P10	1	99698242	99699178	+	572	
processed_pseudogene	high mobility group box 3 pseudogene					
10 [Source:HGNC Symbol;Acc:HGNC:39302]	-	8	28	7		
23	88	26	0.764871838	2.158221231		
0.566897402	1.944164567	6.704173439	2.121892389			
ENSG00000136695	71.73162389	260.4732706	18.57816991			
369.6847857	1156.946605	231.5668626	116.9276881			
586.0660844	-2.324945605	0.043005362	0.169701334	IL36RN		
2	113058638	113065382	+	3299		
protein_coding	interleukin 36 receptor antagonist [Source:HGNC					
Symbol;Acc:HGNC:15561]	-	62	281	19	368	1266
236	1.027789287	3.755415222	0.266792577			
5.393450778	16.7228382	3.339455982				
ENSG00000120992	3050.907939	2458.274426	2620.499755			
1976.005363	2302.926891	2351.9736	2709.89404			
2210.301951	0.293597771	0.043023278	0.169704948	LYPLA1		
8	54046367	54102017	-	4694		
protein_coding	lysophospholipase I [Source:HGNC Symbol;Acc:HGNC:6737]					
-	2637	2652	2680	1967	2520	2397
30.72286817	24.90946457	26.44808089	20.26107533			
23.39462312	23.83806417					
ENSG00000171105	185.1138681	241.0072966	223.9158373			
260.1857595	325.3341164	339.5005697	216.6790007			
308.3401485	-0.507701835	0.04302848	0.169704948	INSR		
19	7112255	7294034	-	10451	protein_coding	
insulin receptor [Source:HGNC Symbol;Acc:HGNC:6091]	-					160
260	229	259	356	346	0.837253261	
1.096855603	1.015032833	1.198238123	1.484399324			
1.545483194						
ENSG00000158092	557.6555277	501.4805672	592.5458402			
653.9804225	748.4512396	717.2685447	550.560645			
706.5667356	-0.360356943	0.043044428	0.169715141	NCK1		
3	136862208	136949823	+	3727		
protein_coding	NCK adaptor protein 1 [Source:HGNC					
Symbol;Acc:HGNC:7664]	-	482	541	606	651	819

731	7.072653115	6.399879992	7.532093235		
8.445450335	9.575977275	9.155962811			
ENSG00000166167	584.2656462	539.485564	465.4320461		
692.154395	651.5820926	706.475174	529.7277521		
683.4038872	-0.368039215	0.043053269	0.169715141	BTRC	
10	101354033	101557321	+ 6613		
protein_coding	beta-transducin repeat containing E3 ubiquitin protein				
ligase [Source:HGNC Symbol;Acc:HGNC:1144]			- 505	582	
476	689	713	720	4.176260381	3.880238495
3.334347704	5.037579532	4.698395857	5.082530688		
ENSG00000221867	1867.336145	2064.320191	2236.224978		
2658.113975	2343.136726	2485.418911	2055.960438		
2495.556537	-0.279188252	0.043090907	0.169819722	MAGEA3	
X	152698752	152702347	+ 1788		
protein_coding	MAGE family member A3 [Source:HGNC				
Symbol;Acc:HGNC:6801]	-	1614	2227	2287	2646
2533	49.36631711	54.91445282	59.25173966	2564	
71.55229068	62.4897956	66.13231279			
ENSG00000123815	494.0226355	676.6743328	613.0796069		
610.783559	839.8372273	948.8354073	594.5921918		
799.8187312	-0.4270115	0.043142679	0.16993664	COQ8B	
19	40691529	40718207	- 5488		
protein_coding	coenzyme Q8B [Source:HGNC Symbol;Acc:HGNC:19041]				
-	427	730	627	608	919
4.255087401	5.864658328	5.2924394	5.356618206		
7.297263126	8.225426144				
ENSG00000160293	629.3871516	749.9034729	785.1721282		
456.0785128	554.7129456	633.8652256	721.4875842		
548.2188947	0.396673245	0.043142808	0.16993664	VAV2	
9	133761894	133992604	- 5682		
protein_coding	vav guanine nucleotide exchange factor 2 [Source:HGNC				
Symbol;Acc:HGNC:12658]	-	544	809	803	454
646	5.235912534	6.277420917	6.546614555	607	
3.863276924	4.6552827	5.30734506			
ENSG00000177600	9411.883232	9536.473337	10085.99066		
10006.60367	11394.91881	13890.08689	9678.115744		
11763.86979	-0.281553923	0.043176333	0.170024885	RPLP2	
11	809647	812880	+ 1955	protein_coding	
ribosomal protein lateral stalk	subunit P2 [Source:HGNC				
Symbol;Acc:HGNC:10377]	-	8135	10288	10315	9961
14156	227.5650214	232.0161157	244.4133515	12469	
246.3527388	277.9351412	338.0180002			
ENSG00000082258	888.5465669	667.4048214	688.370085		
616.8110283	545.5743468	561.2552771	748.1071578		
574.5468841	0.379995905	0.043229413	0.170190068	CCNT2	
2	134918235	134959342	+ 9081		
protein_coding	cyclin T2 [Source:HGNC Symbol;Acc:HGNC:1600]				
768	720	704	614	597	572
3.495688926	3.591215272	3.269158009	2.864832621		
2.940413371					

ENSG00000184500	1015.812351	1028.915766	1015.932554			
623.8430759	855.3728453	897.8122003	1020.220224			
792.3427072	0.364442238	0.043246832	0.170214808	PROS1		
3	93873033	93980003	-	5444		
protein_coding	protein S [Source:HGNC Symbol;Acc:HGNC:9456]					-
878	1110	1039	621	936	915	8.82005132
	8.989567965	8.840969388	5.515370605	7.492320206		
	7.846012819					
ENSG00000261693	0	0	0	18.082408	2.741579632	
0	0	6.94132921	-5.213621073	0.043285872		
1	AC134682.1	8	142403652	142407028		
+	3377	antisense	"novel transcript, antisense			
to TSNARE1"	-	0	0	0	18	3
0	0	0	0.257716759	0.038712284	0	
ENSG00000118156	6.941770054	3.707804563	5.866790497	0		
0	0	5.505455038	0	4.952144964		
0.043292821	1	ZNF541	19	47520685	47555856	
-	4655	protein_coding	zinc finger protein 541			
[Source:HGNC Symbol;Acc:HGNC:25294]		zf-C2H2	6	4	6	
0	0	0	0.0704898	0.037885608		
0.059708206	0	0	0			
ENSG00000063322	1883.533608	1740.814243	1738.525584			
2119.660048	2378.777261	2009.529384	1787.624478			
2169.322231	-0.279526546	0.043302288	0.170389207	MED29		
19	39391303	39400637	+	3835		
protein_coding	mediator complex subunit 29 [Source:HGNC					
Symbol;Acc:HGNC:23074]	-	1628	1878	1778	2110	2603
2048	23.21580488	21.59057346	21.47676396			
26.6022459	29.57790417	24.92933076				
ENSG00000144199	0	0	1.955596832	5.02289111		
10.05245865	12.75580175	0.651865611				
9.277050505	-3.805701314	0.043318771	1	FAHD2B	2	
97083583	97094882	-	2662	protein_coding		
	fumarylacetoacetate hydrolase domain containing 2B					
[Source:HGNC Symbol;Acc:HGNC:25318]	-	0	0	2		
5	11	13	0	0	0.034803619	
0.090816167	0.180070774	0.22797191				
ENSG00000115233	3526.419188	2791.049885	2700.679225			
2418.01978	2414.417796	2531.53604	3006.049433			
2454.657872	0.291987959	0.043336453	0.17047423	PSMD14		
2	161308038	161411717	+	7698		
protein_coding	"proteasome 26S subunit, non-ATPase 14 [Source:HGNC					
Symbol;Acc:HGNC:16889]"	-	3048	3011	2762	2407	2642
2580	21.6536827	17.24514327	16.62065839			
15.11817611	14.95593277	15.64544193				
ENSG00000273472	0	21.31987624	5.866790497	33.15108133		
	39.29597473	33.36132766	9.062222245	35.26946124		
	-1.942537147	0.043363551	0.17047423	AC096733.2		
4	140756528	140757921	+	1394		
lincRNA	novel transcript					
		-	0	23	6	33

43	34	0	0.727443086	0.199384288	
1.144596418	1.344201202		1.138576404		
ENSG00000106052	5182.031346		4236.166714	4354.136347	
4256.397927	3780.638313		3108.490766	4590.778135	
3715.175668	0.305153429		0.043364833	0.17047423	
TAX1BP1	7	27739331	27844564	+	9165
protein_coding	Tax1 binding protein 1 [Source:HGNC				
Symbol;Acc:HGNC:11575]	-	4479	4570	4453	4237 4137
3168	26.72657489		21.98455548	22.50726279	
22.35255701	19.67033015		16.13610605		
ENSG00000164924	24554.19764		21526.58634	22072.82145	
18581.68337	20721.77272		18441.94569	22717.86848	
19248.46726	0.239033061		0.043371435	0.17047423	YWHAZ
8	100916525		100953388	-	8555
protein_coding	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase				
activation protein zeta	[Source:HGNC Symbol;Acc:HGNC:12855]				
21223	23223	22574	18497	22675	18795 135.6692652
119.6829447	122.2337013		104.5400008	115.501036	
102.5577187					
ENSG00000232888	26.61011854		13.90426711	37.15633981	
59.2701151	49.34843338		65.7414398	25.89024182	
58.11999609	-1.168376084		0.043389343	0.17047423	
RPS11P5	12	132825701	132826184	+	484
processed_pseudogene	ribosomal protein S11 pseudogene 5				
[Source:HGNC Symbol;Acc:HGNC:36312]	-			23	15 38
59	54	67	2.598825905	1.366406299	
3.63697814	5.89396926		4.861910903	6.462126821	
ENSG00000198832	201.3113316		223.3952249	267.916766	
199.9110662	493.4843338		376.7867595	230.8744408	
356.7273865	-0.627796559		0.043390804	0.17047423	
SELENOM	22	31104772	31120069	-	3187
protein_coding	selenoprotein M [Source:HGNC Symbol;Acc:HGNC:30397]				
-	174	241	274	199	540 384
2.985808139	3.334025653		3.982639118	3.019063373	
7.383636263	5.624646031				
ENSG00000108506	1047.050317		830.5482222	817.4394759	
757.4519794	658.8929716		686.8508636	898.3460049	
701.0652716	0.357104076		0.043442023	0.170631603	INTS2
17	61865367		61928016	-	8627
protein_coding	integrator complex subunit 2 [Source:HGNC				
Symbol;Acc:HGNC:29241]	-	905	896	836	754 721
700	5.736982088		4.579121527	4.488993073	
4.225837224	3.641950715		3.787775912		
ENSG00000144158	75.20250892		69.52133556	115.3802131	
37.16939421	29.24351608		64.76022428	86.70135253	
43.72437819	0.989229667		0.043501255	0.170820365	
AL078621.1	2	113657908	113658675	+	768
processed_pseudogene	small nuclear ribonucleoprotein				
polypeptide A' (SNRPA1)	pseudogene				
37	32	66	4.628570141	4.305603182	118

7.117430631	2.329387392	1.81571364	4.011702798		
ENSG00000229567	8.09873173	5.561706845	2.933395248	0	
0	0	5.531277941	0	4.958424494	
0.043517212	1	AL139421.1	1	93278961	
93279129	-	169	processed_pseudogene	ribosomal	
protein L39 (RPL39)	pseudogene	-	7	6	3
0	0	2.265197367	1.56530331	0.822312716	0
0	0	0			
ENSG00000230601	2.313923351	12.97731597	1.955596832	0	
0	0	5.748945385	0	5.020211153	
0.043533972	1	TEX48	9	114666434	114682066
-	708	protein_coding	testis expressed	48	
[Source:HGNC Symbol;Acc:HGNC:52393]	-	2	14	2	
0	0	0	0.154486826	0.871823831	
0.130857673	0	0	0		
ENSG00000090266	598.1491863	755.4651798	814.5060807		
355.6206906	523.6417098	676.0574929	722.7068156		
518.4399644	0.479596021	0.043536354	0.17091429		NDUFB2
7	140690777	140722790	+	4447	
protein_coding	NADH:ubiquinone	oxidoreductase	subunit B2	[Source:HGNC	
Symbol;Acc:HGNC:7697]	-	517	815	833	354
689	6.357964906	8.08024329	8.677214389	573	
3.848906394	5.614952546	7.232661307			
ENSG00000185722	2422.677749	2426.758087	2939.262039		
2279.387986	1909.967144	2167.505083	2596.232625		
2118.953404	0.29329788	0.043628107	0.171215951		ANKFY1
17	4163907	4263995	-	14138	protein_coding
ankyrin repeat and FYVE domain	containing 1	[Source:HGNC			
Symbol;Acc:HGNC:20763]	-	2094	2618	3006	2269
2209	8.099970044	8.164237366	9.849256658	2090	
7.759750098	6.441943427	7.293798721			
ENSG00000092140	800.6174796	769.3694469	798.861306		
639.9163274	656.151392	579.898372	789.6160775		
625.3220305	0.336329326	0.043642239	0.171215951		G2E3
14	30559123	30620063	+	9353	
protein_coding	G2/M-phase specific	E3 ubiquitin	protein ligase		
[Source:HGNC Symbol;Acc:HGNC:20338]	-	692	830	817	
637	718	591	4.046223544	3.912560949	
4.046444406	3.292984712	3.345277177	2.949732154		
ENSG00000136731	2625.146042	2182.969937	3430.116844		
2368.795448	1754.610965	2267.589065	2746.077608		
2130.331826	0.366412547	0.043646795	0.171215951		UGGT1
2	128091200	128195677	+	11349	
protein_coding	UDP-glucose	glycoprotein	glucosyltransferase 1		
[Source:HGNC Symbol;Acc:HGNC:15663]	-	2269	2355	3508	
2358	1920	2311	10.93381226	9.148866142	
14.31872817	10.04586693	7.372286943	9.505793712		
ENSG00000219294	16.19746346	0	3.911193665	0	0
0	6.702885708	0	5.232086079	0.043662489	
1	PIP5K1P1	6	7986537	7988192	+
					1656

	processed_pseudogene		phosphatidylinositol-4-phosphate 5-				
	kinase type 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:28372]		-				
	14	0	4	0	0	0	0.462341008
	0	0.111892793		0	0	0	
ENSG00000174891	1248.361648			851.8680984		1086.33404	
873.9830532	882.7886416			679.0011395		1062.187929	
811.9242781	0.386819233			0.043670389		0.171264556	RSRC1
	3	158105855		158545730		+ 5117	
	protein_coding	arginine and serine rich coiled-coil 1 [Source:HGNC					
	Symbol;Acc:HGNC:24152]	-		1079	919	1111	870 966
	692	11.53189662		7.918338299		10.05775605	
8.220629064	8.226598598			6.313013431			
ENSG00000154978	2244.505651			2728.017208		2579.432222	
2773.640471	3321.880654			3096.716179		2517.31836	
3064.079102	-0.283336797			0.043688582		0.171291961	VOPP1
	7	55436056		55572988		- 5364	
	protein_coding	"VOPP1, WBP1/VOPP1 family member [Source:HGNC					
	Symbol;Acc:HGNC:34518]"	-		1940	2943	2638	2761 3635
	3156	19.77915225		24.18997675		22.78182324	
24.88736137	29.53073414			27.46592698			
ENSG00000108785	111.0683209			130.7001109		152.5365529	
207.947692	137.9928415			285.5337162		131.4349949	
210.4914165	-0.677554167			0.04374745		0.17142509	
HSD17B1P1	17	42546764		42548706		+ 955	
	unprocessed_pseudogene	hydroxysteroid 17-beta dehydrogenase 1					
	pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:5216]	-				96	141
	156	207	151	291	5.49746628	6.509530992	
	7.566999105	10.48016669		6.890205477		14.22445557	
ENSG00000235427	2.313923351			5.561706845		8.800185745	0
	0	0	5.558605314	0		4.970211452	
0.043750088	1	AC006159.1		7		116542718	
116551969	-	386		antisense		novel transcript	
	-	2	6	9	0	0	0
0.283359256	0.685327097			1.080084318		0	0 0
ENSG00000172037	2268.801846			2050.415924		3144.599706	
1768.057671	1233.710835			2470.700678		2487.939159	
1824.156394	0.447914699			0.043762085		0.17142509	LAMB2
	3	49121114		49133118		- 6865	
	protein_coding	laminin subunit beta 2 [Source:HGNC					
	Symbol;Acc:HGNC:6487]	-		1961	2212	3216	1760 1350
	2518	15.62182487		14.2062201		21.70091042	
12.39576524	8.569427812			17.12226523			
ENSG00000129219	691.8630821			715.6062807		798.861306	
586.6736817	489.8288943			630.921579		735.4435563	
569.141385	0.370425381			0.043766558		0.17142509	PLD2
	17	4807096	4823434	+ 4888		protein_coding	
	phospholipase D2 [Source:HGNC Symbol;Acc:HGNC:9068]					-	598
	772	817	584	536	643	6.690594351	
6.963379443	7.742715738			5.776740601		4.7785066	
6.140812138							

ENSG00000118402	70.57466222	38.93194792	60.6235018		
136.6226382	107.8354655	70.6475174	56.71003731		
105.035207	-0.892501098	0.043771804	0.17142509	ELOVL4	
6	79914812	79947580	-	3042	
protein_coding	ELOVL fatty acid elongase 4 [Source:HGNC				
Symbol;Acc:HGNC:14415]	-	61	42	62	136
72	1.09664317	0.608729065	0.944136822		118
2.161627791	1.690368517	1.104890711			
ENSG00000234072	175.8581747	177.0476679	155.4699482		
240.0941951	239.4312879	249.2287419	169.4585969		
242.918075	-0.519761558	0.043778606	0.17142509		
AC074117.1	2	27356246	27367622	+	3412
antisense	uncharacterized LOC105374363 [Source:NCBI				
gene;Acc:105374363]	-	152	191	159	239
254	2.436291658	2.468074715	2.158691382		262
3.386804241	3.346192077	3.475127394			
ENSG00000197124	8.09873173	4.634755704	7.822387329		
1.004578222	0	0	6.851958255	0.334859407	
4.306174161	0.043817694	1	ZNF682	19	19997058
20039506	-	4968	protein_coding	zinc finger	
protein	682 [Source:HGNC Symbol;Acc:HGNC:28857] zf-C2H2				
8	1	0	0	0.077056835	0.044373366
	0.074595195	0.009732393	0	0	
ENSG00000130304	601.6200714	787.9084697	823.3062664		
914.166182	860.8560045	1100.923813	737.6116025		
958.6486665	-0.377093021	0.043855166	0.171680901		
SLC27A1	19	17468769	17506168	+	8249
protein_coding	solute carrier family 27 member 1 [Source:HGNC				
Symbol;Acc:HGNC:10995]	-	520	850	842	910
1122	3.447440289	4.543092507	4.728389494		942
5.333856227	4.976318823	6.34947166			
ENSG00000176692	411.8783566	485.7223978	705.9704565		
420.918275	286.9520015	420.9414579	534.5237369		
376.2705781	0.507722682	0.04389429	0.171702686	FOXC2	
16	86566829	86569728	+	2900	
protein_coding	forkhead box C2 [Source:HGNC Symbol;Acc:HGNC:3801]				
Fork	356	524	722	419	314
6.713464748	7.966494251	11.5329831	6.985817593		
4.718351031	6.905662195				
ENSG0000012174	802.9314029	724.8757921	716.726239		
595.7148857	603.1475191	572.0486479	748.1778114		
590.3036842	0.34141677	0.043894701	0.171702686	MBTPS2	
X	21839636	21885424	+	8927	
protein_coding	"membrane bound transcription factor peptidase, site 2				
[Source:HGNC Symbol;Acc:HGNC:15455]"	-	694	782	733	
593	660	583	4.251563289	3.862203706	
3.803653048	3.211813913	3.221788289	3.048660444		
ENSG00000159228	1361.743892	1515.565115	1279.938127		
1764.039358	1571.838989	1761.281857	1385.749045		
1699.053401	-0.293777264	0.043895562	0.171702686	CBR1	

21	36069941	36073166	+	2450		
protein_coding	carbonyl reductase 1 [Source:HGNC					
Symbol;Acc:HGNC:1548]	-	1177	1635	1309	1756	1720
1795	26.27272326	29.42291049		24.75004643		
34.65450052	30.59292206	34.20144099				
ENSG00000187800	2.313923351	6.488657986		7.822387329		0
0	0	5.541656222	0	4.966025667		
0.04389857	1	PEAR1	1	156893698		156916434
+	5530	protein_coding platelet endothelial				
aggregation receptor 1 [Source:HGNC	Symbol;Acc:HGNC:33631]					-
2	7	8	0	0	0	0.019778784
0.055809337	0.067014273	0	0	0	0	
ENSG00000279108	94.87085741	82.49865154		61.60130022		
135.61806	137.9928415	120.6895089		79.65693639		
131.4334701	-0.72458255	0.043905658		0.171702686		
AC008537.3	19	40840159		40842039	+	1881
TEC	TEC	-	82	89	63	135
123	2.384074209	2.086100221		1.55150868		
3.470133552	3.498217028	3.052546945				
ENSG00000170468	448.9011302	563.5862936		509.4329748		
583.659947	820.6461699	619.1469928		507.3067995		
674.4843699	-0.410532846	0.043973419		0.171903369		RIOX1
14	73490964	73493392		+	2429	
protein_coding	ribosomal oxygenase 1 [Source:HGNC					
Symbol;Acc:HGNC:20968]	-	388	608	521	581	898
631	8.735724387	11.03595758		9.936024742		
11.56511176	16.11044066	12.1268465				
ENSG00000073584	365.5998895	310.5286322		358.8520187		
278.2681675	171.805657	270.8154834		344.9935135		
240.2964359	0.522232951	0.043979465		0.171903369		
SMARCE1	17	40624962		40648864	-	18680
protein_coding	"SWI/SNF related, matrix associated, actin dependent					
regulator of chromatin, subfamily e, member 1 [Source:HGNC	Symbol;Acc:HGNC:11109]" HMG					
276	0.925134599	0.790682075		0.91010531		188
0.716975167	0.438570661	0.689728618				
ENSG00000143947	9138.840276	9400.211519		9575.579889		
6151.032453	8548.245293	8321.688821		9371.543895		
7673.655522	0.288336383	0.043996589		0.171926346		RPS27A
2	55231903	55235853		+	3130	
protein_coding	ribosomal protein S27a [Source:HGNC					
Symbol;Acc:HGNC:10417]	-	7899	10141	9793	6123	9354
8481	138.0137922	142.8467629		144.9351995		
94.58475394	130.2301755	126.4878357				
ENSG00000227678	15.04050178	1.853902282		0.977798416		0
0	0	5.957400827	0	5.060715918		
0.044017999	1	AL355581.1	6	130133410		
130146179	-	2906	antisense	"novel transcript,		
antisense to L3MBTL3"	-	13	2	1	0	0
0	0.244648442	0.030343687		0.01594068		0

0	0					
ENSG00000260366	2.313923351	12.97731597	5.866790497	0		
0	0.981215519	7.052676607	0.32707184			
4.353810868	0.044024017	1	AC026803.1	19		
48926171	48926444	+	274	sense_overlapping		
	"novel transcript, overlapping NUCB1"	-	2	14		
6	0	0	1	0.399184937	2.252741869	
	1.014385759	0	0	0.170370922		
ENSG00000224805	0	0.926951141	0	7.032047554		
9.138598774	4.906077597	0.308983714				
7.025574642	-4.271253034	0.044040113	1	LINC00853		
1	47179250	47180339	+	661		
antisense	long intergenic non-protein coding RNA	853				
[Source:HGNC Symbol;Acc:HGNC:43716]		-	0	1	0	
7	10	5	0	0.066701024	0	
0.512032818	0.659260626	0.353113711				
ENSG00000110717	2035.095588	1883.564718	2297.826278			
1845.410194	1562.70039	1660.216659	2072.162195			
1689.442414	0.294700371	0.04409838	0.172280076	NDUFS8		
11	68030617	68036644	+	4523		
protein_coding	NADH:ubiquinone oxidoreductase core subunit S8					
[Source:HGNC Symbol;Acc:HGNC:7715]		-	1759	2032	2350	
1837	1710	1692	21.26835812	19.80756427		
24.06820657	19.63739089	16.47510232	17.46303831			
ENSG00000253948	9.255693406	12.05036483	15.64477466			
4.018312888	0	0	12.3169443	1.339437629		
3.221303069	0.044101024	1	AC104986.2	8		
98996763	99013044	-	380	lincRNA		
uncharacterized	LOC105375666 [Source:NCBI gene;Acc:105375666]	-				
8	13	16	4	0	0	1.151333399
	1.508320778	1.950468055	0.508952921	0	0	
ENSG00000109794	0	0	0	0	6.397019142	
13.73701727	0	6.711345471	-5.166792955	0.04412584		
1	FAM149A	4	186104419	186172667	+	
5218	protein_coding	family with sequence similarity	149			
member A [Source:HGNC Symbol;Acc:HGNC:24527]		-	0	0	0	0
0	0	7	14	0	0	0
	0.058459159	0.125247768				
ENSG00000175711	264.9442237	255.8385149	274.7613549			
177.8103453	149.8730199	221.7547074	265.1813645			
183.1460242	0.534516708	0.044137933	0.172390542			
B3GNTL1	17	82942155	83051810	-	6891	
protein_coding	"UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase like 1 [Source:HGNC Symbol;Acc:HGNC:21727]"	-	229	276	281	177
226	1.81738921	1.765878383	1.888976373			164
1.24191603	1.037098953	1.530989545				
ENSG00000234718	12.72657843	3.707804563	0.977798416	0		
0	0	5.804060471	0	5.024580422		
0.044157483	1	AC007161.1	7	7738524	7742574	-

1496	transcribed_processed_pseudogene	ribosomal				
protein L23a (RPL23A)	pseudogene	-	11	4	1	
0	0	0	0.402120121	0.117886034		
0.030964984	0	0	0			
ENSG00000256481	12.72657843	3.707804563	0.977798416	0		
0	0	5.804060471	0	5.024580422		
0.044157483	1	AP006333.2	11	64081690		
64087175	+	732	antisense	"novel transcript,		
antisense to MACROD1"	-	11	4	1	0	0
0	0.821819263	0.240925555	0.063283629	0		
0	0					
ENSG00000222287	2.313923351	3.707804563	23.46716199	0		
0	1.962431039	9.829629968	0.65414368			
3.921827271	0.044179446	1	RNU6-1043P	16		
30701337	30701435	-	99	snRNA	"RNA, U6 small	
nuclear 1043,	pseudogene [Source:HGNC Symbol;Acc:HGNC:48006]"					-
2	4	24	0	0	2	1.104814877
1.781388953	11.22996759	0	0	0.943063284		
ENSG00000126785	315.8505375	176.1207168	290.4061296			
154.7050462	212.9293514	139.3326038	260.7924613			
168.9890005	0.623716712	0.044316222	0.172992426			RH0J
14	63204114	63293219	+	3793		
protein_coding	ras homolog family member J [Source:HGNC					
Symbol;Acc:HGNC:688]	-	273	190	297	154	233
142	3.936176073	2.208537187	3.627238082			
1.963084955	2.676897093	1.747638234				
ENSG00000012963	2239.877804	1882.637767	2017.198133			
1408.418667	1924.588902	1584.663064	2046.571235			
1639.223544	0.319683487	0.044324857	0.172992426			UBR7
14	93207056	93229215	+	3694		
protein_coding	ubiquitin protein ligase E3 component n-recognin 7					
(putative) [Source:HGNC Symbol;Acc:HGNC:20344]	-			1936	2031	
2063	1402	2106	1615	28.66178109	24.24080234	
25.87049823	18.35068748	24.84391722	20.40899745			
ENSG00000105825	401.4657015	827.7673688	359.8298171			
762.4748705	2108.274737	824.2210364	529.6876291			
1231.656881	-1.217225215	0.044328277	0.172992426			TFPI2
7	93885396	93890991	-	2682		
protein_coding	tissue factor pathway inhibitor 2 [Source:HGNC					
Symbol;Acc:HGNC:11761]	-	347	893	368	759	2307
840	7.075634878	14.68001987	6.356111411			
13.68309111	37.48412856	14.62064554				
ENSG00000172575	8.09873173	5.561706845	10.75578258			
51.23348932	30.15737595	6.868508636	8.138740384			
29.4197913	-1.854863785	0.044337301	0.172992426			
RASGRP1	15	38488103	38565575	-	6097	
protein_coding	RAS guanyl releasing protein 1 [Source:HGNC					
Symbol;Acc:HGNC:9878]	-	7	6	11	51	33
7	0.062787987	0.043387938	0.083575493			
0.404441021	0.235861112	0.053595445				

ENSG00000147475	1675.280506	1939.181787	2033.820706				
2295.461237	2303.840751	2246.002324	1882.761				
2281.768104	-0.276916052	0.044374048	0.173030934	ERLIN2			
8	37736601	37759101	+ 9415				
protein_coding	ER lipid raft associated 2 [Source:HGNC						
Symbol;Acc:HGNC:1356]	-	1448	2092	2080	2285	2521	
2289	8.41090931	9.796598598	10.23400127				
11.73456775	11.66839491	11.34936345					
ENSG00000121039	248.7467603	218.7604692	249.3385961				
318.4512964	301.5737595	372.8618974	238.9486085				
330.9623178	-0.470358738	0.044379119	0.173030934	RDH10			
8	73294612	73325281	+ 5321				
protein_coding	retinol dehydrogenase 10 [Source:HGNC						
Symbol;Acc:HGNC:19975]	-	215	236	255	317	330	
380	2.209733571	1.955476954	2.219981612				
2.880495624	2.702584482	3.333775676					
ENSG00000116120	2702.662474	2373.921872	2503.163945				
2208.062932	1876.154328	2170.448729	2526.582764				
2084.888663	0.277137183	0.044381127	0.173030934	FARSB			
2	222570536	222656337	- 3369				
protein_coding	phenylalanyl-tRNA synthetase subunit beta [Source:HGNC						
Symbol;Acc:HGNC:17800]	-	2336	2561	2560	2198	2053	
2212	37.91984384	33.5152548	35.19989842				
31.54480838	26.55501409	30.64997661					
ENSG00000238137	0	0	0	4.569299387			
15.69944831	0	6.756249233	-5.176062668	0.044389894			
1	ARPC3P2 1	211442274	211442806	+			
533	processed_pseudogene	actin related protein 2/3					
complex subunit	3 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:39431]						
-	0	0	0	5	16	0	
0	0	0	0.408791063	1.401324805			
ENSG00000100583	98.34174244	53.76316617	55.73450972				
89.40746176	164.4947779	117.7458623	69.27980611				
123.8827007	-0.843958988	0.044405671	0.17308248	SAMD15			
14	77376689	77391497	+ 2616				
protein_coding	sterile alpha motif domain containing 15 [Source:HGNC						
Symbol;Acc:HGNC:18631]	-	85	58	57	89	180	
120	1.776952827	0.977516759	1.009344851				
1.644952961	2.998426194	2.141359292					
ENSG00000065057	319.3214225	332.7754596	327.5624694				
430.9640572	426.7725628	438.6033372	326.5531172				
432.1133191	-0.403817255	0.044424346	0.173111133	NTHL1			
16	2039815 2047866	- 2430	protein_coding	nth			
like DNA glycosylase 1	[Source:HGNC Symbol;Acc:HGNC:8028]						
276	359	335	429	467	447	6.211514755	
6.513615717	6.386177558	8.535957323	8.374698961				
8.587115124							
ENSG00000258539	18.51138681	0	1.955596832	0	0		
0	6.822327881	0	5.256832008	0.044445238			
1	AC068896.1	10	124617080	124791727			

FAM53B	-	3422	protein_coding	novel transcript (METTL10-			
	readthrough)	-	16	0	2	0	0
	0	0.255702333	0	0.027074001	0	0	0
	0						
ENSG00000084693	631.7010749		784.2006652		930.8640922		
583.659947	533.6941684		664.2829067		782.2552774		
593.8790074	0.398405195		0.044455008		0.17318647		AGBL5
	2	27042364	27070622		+	5283	
protein_coding	ATP/GTP binding		protein like 5		[Source:HGNC		
Symbol;Acc:HGNC:26147]	-		546	846	952	581	584
	677	5.652059756	7.060309026		8.347545472		
5.317368252	4.817157368		5.982105856				
ENSG00000164258	776.3212844		756.3921309		782.2387329		
532.4264577	530.9525888		719.2309758		771.6507161		
594.2033407	0.377090531		0.044479998		0.173196988		NDUFS4
	5	53560633	53683340		+	1176	
protein_coding	NADH:ubiquinone		oxidoreductase		subunit S4		[Source:HGNC
Symbol;Acc:HGNC:7711]	-		671	816	800	530	581
	733	31.20397427	30.59262865		31.51266416		
21.79062889	21.52917601		29.09662982				
ENSG00000176410	53.22023708		81.57170039		102.6688337		
110.5036044	171.805657		126.576802		79.15359039		
136.2953545	-0.781512412		0.044480367		0.173196988		
DNAJC30	7	73680969	73683453		-	2485	
protein_coding	DnaJ heat shock		protein family		(Hsp40) member		C30
[Source:HGNC Symbol;Acc:HGNC:16410]	-		-		46	88	105
	110	188	129		1.012339427	1.561313939	
1.957335901	2.140264798		3.296780661		2.423312113		
ENSG00000233966	172.3872897		185.3902282		232.716023		
96.43950931	143.4760008		142.2762503		196.8311803		
127.3972535	0.627551395		0.044547443		0.173413997		
UBE2SP1	17	15704232	15704900		-	669	
processed_pseudogene	ubiquitin		conjugating		enzyme E2 S		pseudogene 1
[Source:HGNC Symbol;Acc:HGNC:30864]	-		-		149	200	238
	96	157	145		12.18021245	13.18068059	
16.47985154	6.938192286		10.22662032		10.11784263		
ENSG00000166455	0	0	0	0	24.67421669	0	
	0	8.224738897	-5.461878964		0.044577398	1	
	C16orf46	16	81053497		81077267	-	
	2376	protein_coding	chromosome 16		open reading		frame 46
[Source:HGNC Symbol;Acc:HGNC:26525]	-		-		0	0	0
	0	27	0	0	0	0	
0.495194629	0						
ENSG00000259130	0	0	0	0	24.67421669	0	
	0	8.224738897	-5.461878964		0.044577398	1	
	AL133371.3	14	20870278		20873592	-	
	583	lincRNA	novel transcript		-	0	0
	0	0	27	0	0	0	0
	2.018151696	0					
ENSG00000259736	16.19746346		4.634755704		11.73358099	0	

0	2.943646558	10.85526672	0.981215519		
3.473258319	0.044598469	1	CRTC3-AS1	15	
90620007	90717141	-	957	antisense	CRTC3
antisense RNA 1	[Source:HGNC	Symbol;Acc:HGNC:51433]	-		14
5	12	0	0	3	0.800038359
0.23035202	0.580860393	0	0		0.146337406
ENSG00000167114	752.0250892	793.4701766			822.328468
1263.759403	913.8598774	883.0939675			789.2745779
1020.237749	-0.369846573	0.044601571			0.173580504
SLC27A4 9	128340646	128361470		+	3110
protein_coding	solute carrier family 27 member 4	[Source:HGNC			
Symbol;Acc:HGNC:10998]	-	650	856	841	1258
900	11.43003816	12.13521105			1000
19.5578661	14.01193806	13.50915412			
ENSG00000002586	4405.710061	6303.267758			5736.743308
3415.565955	5037.195644	4499.854372			5481.907042
4317.538657	0.34456106	0.044628755			0.17364209
X	2691133	2741309	+	4912	protein_coding
molecule (Xg blood group)	[Source:HGNC	Symbol;Acc:HGNC:7082]			CD99
3808	6800	5867	3400	5512	4586
61.03578191	55.3299383		33.46738466		42.39682108
43.58346232					48.90006636
ENSG00000151718	1166.217369	1230.064164			1492.120383
1095.99484	981.4855083	1033.219942			1296.133972
1036.900097	0.32236686	0.04465192			0.173688014
4	183099293	183320777		+	9966
protein_coding	WW and C2 domain containing 2	[Source:HGNC			
Symbol;Acc:HGNC:24148]	-	1008	1327	1526	1091
1053	5.531391042	5.870620381			1074
5.293038882	4.696150389	4.932345884			
ENSG00000182372	1126.880672	1047.454789			1055.044491
1493.807816	1292.197867	1213.763598			1076.459984
1333.256427	-0.30880902	0.044676676			0.173740105
8	1755778	1801711	+	9459	protein_coding
transmembrane ER and ERGIC protein	[Source:HGNC				"CLN8,
Symbol;Acc:HGNC:2079]"	-	974	1130	1079	1487
1237	5.631297144	5.267046784			1414
7.600933966	6.514225402	6.104786919			
ENSG00000278374	2.313923351	2.780853423			16.62257307
0.913859877	0	7.239116616			0
4.389291011	0.04468167	1	RF00015	8	123454981
123455107	-	127	snRNA	-	2
3	17	0	1	0	0.861233645
1.041481337	6.200799034	0	0.343126987	0	
ENSG00000113578	423.4479733	333.7024107			405.7863427
256.1674466	235.7758484	340.4817853			387.6455756
277.4750267	0.482013782	0.044743119			0.173944141
5	142592178	142698070		-	5275
protein_coding	fibroblast growth factor 1	[Source:HGNC			
Symbol;Acc:HGNC:3665]	-	366	360	415	255
					258

347	3.794489314	3.008943236	3.644417208		
2.337324078	2.131355234	3.07081071			
ENSG00000198856	2094.100633	1748.229852	1902.795718		
1395.35915	1655.000238	1626.855331	1915.042068		
1559.071573	0.296220191	0.044751901	0.173944141	OSTC	
4	108650584	108667820	+ 1617		
protein_coding	oligosaccharyltransferase complex non-catalytic				
subunit [Source:HGNC Symbol;Acc:HGNC:24448]			- 1810	1886	
1946	1389	1811	1658	61.21576311	51.42397293
55.74876768	41.53301341	48.80530466	47.86527321		
ENSG00000118503	452.3720152	558.9515379	381.3413823		
700.1910208	705.4998254	492.5701908	464.2216451		
632.753679	-0.446512252	0.044772606	0.173980383		
TNFAIP3 6	137867188	137883312	+ 5051		
protein_coding	TNF alpha induced protein 3 [Source:HGNC				
Symbol;Acc:HGNC:11896]	-	391	603	390	697
502	4.233446752	5.263491205	3.576759129	772	
6.67200904	6.660372662	4.639512877			
ENSG00000177674	893.1744137	1251.38404	1082.422847		
1200.470975	1506.041078	1406.081839	1075.660433		
1370.864631	-0.34923194	0.044822364	0.174129472	AGTRAP	
1	11736084	11754802	+ 2435		
protein_coding	angiotensin II receptor associated protein				
[Source:HGNC Symbol;Acc:HGNC:13539]	-	772	1350	1107	
1195	1648	1433	17.33856087	24.44380221	
21.05964816	23.72849296	29.49285662	27.47218869		
ENSG00000137312	2166.989219	2071.7358	2458.185218		
1531.981789	1912.708723	1972.243194	2232.303412		
1805.644569	0.305919731	0.04486714	0.17425914	FL0T1	
6	30727709	30742733	- 3186		
protein_coding	flotillin 1 [Source:HGNC Symbol;Acc:HGNC:3757]			-	
1873	2235	2514	1525	2093	2010
30.92898828	36.55291005	23.1433002	28.62740978		
29.45074747					
ENSG00000137871	529.8884475	355.9492381	321.6956789		
309.4100924	290.607441	249.2287419	402.5111215		
283.0820918	0.506180731	0.044903925	0.174315045		
ZNF280D 15	56630181	56734086	- 12113		
protein_coding	zinc finger protein 280D [Source:HGNC				
Symbol;Acc:HGNC:25953]	-	458	384	329	308
254	2.067799726	1.397698391	1.25819118	318	
1.229419836	1.14402101	0.978876799			
ENSG00000089053	3078.675019	2921.749996	3100.598778		
2695.28337	2396.140599	2540.36698	3033.674598		
2543.930316	0.254031404	0.04490434	0.174315045	ANAPC5	
12	121308245	121399896	- 12304		
protein_coding	anaphase promoting complex subunit 5 [Source:HGNC				
Symbol;Acc:HGNC:15713]	-	2661	3152	3171	2683
2589	11.82750839	11.29467775	11.93857179	2622	
10.54327579	9.286348173	9.822719984			

ENSG00000169612	202.4682933	364.2917984	307.0287027	
389.7763501	356.4053522	520.0442253	291.2629314	
422.0753092	-0.532833264	0.044958766	0.174482016	RAMAC
15	82986207	82991057	+ 1568	
protein_coding	RNA guanine-7 methyltransferase activating subunit			
[Source:HGNC Symbol;Acc:HGNC:31022]	-	175	393	314
388	390	530	6.103608977	11.05046237
9.276540512	11.96428869	10.83869877	15.77886815	
ENSG00000154358	4.627846703	5.561706845	6.844588913	
12.05493866	34.72667534	18.64309487	5.678047487	
21.80823629	-1.939670944	0.044976326	0.174487119	OBSCN
1	228208130	228378874	+ 32290	
protein_coding	"obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF [Source:HGNC Symbol;Acc:HGNC:15719]"			- 4
6	7	12	38	19
0.008192513	0.010042283	0.017968607	0.006774647	0.051283086
0.027468288				
ENSG00000130052	677.979542	656.2814077	967.0426336	
569.5958519	571.1624234	604.42876	767.1011944	
581.7290118	0.399384615	0.044982909	0.174487119	STARD8
X	68647666	68725842	+ 5558	
protein_coding	StAR related lipid transfer domain containing 8			
[Source:HGNC Symbol;Acc:HGNC:19161]	-	586	708	989
567	625	616	5.765988692	5.616278988
8.242903299	4.932484543	4.900270708	5.173782953	
ENSG00000219085	11.56961676	4.634755704	0.977798416	0
0	0	5.727390293	0	5.006264878
0.045001434	1	NPM1P37 6	69705287	69706160
-	874	processed_pseudogene	nucleophosmin 1	
pseudogene 37	[Source:HGNC Symbol;Acc:HGNC:45216]			- 10
5	1	0	0	0
0.252227555	0.053001849	0	0	0
ENSG00000196172	83.30124065	50.05536161	75.29047804	
43.19686355	11.88017841	38.26740526	69.54902677	
31.11481574	1.162107968	0.045006147	0.17453297	ZNF681
19	23739195	23758891	- 6497	
protein_coding	zinc finger protein 681 [Source:HGNC Symbol;Acc:HGNC:26457]			zf-C2H2 72 54 77 43 13
39	0.606058215	0.366450105	0.549010075	
0.32000503	0.087194498	0.280219127		
ENSG00000127884	1674.123545	1905.811546	2070.977045	
1415.450715	1552.647932	1634.705055	1883.637379	
1534.267901	0.296251464	0.045056819	0.174685161	ECHS1
10	133362480	133373689	- 1617	
protein_coding	"enoyl-CoA hydratase, short chain 1 [Source:HGNC Symbol;Acc:HGNC:3151]"			- 1447 2056 2118 1409 1699
1666	48.93878962	56.05921969	60.67620244	
42.13104096	45.78697549	48.09622748		
ENSG00000117595	5.784808379	5.561706845	4.888992081	0
0	0	5.411835768	0	4.928738927

0.04508317	1	IRF6	1	209785623	209806175	
-	4965	protein_coding	interferon	regulatory	factor	6
[Source:HGNC	Symbol;Acc:HGNC:6121]	IRF	5	6	5	
0	0	0	0.055073853	0.053280213		
0.046650167	0	0	0			
ENSG00000127920	675.6656186	696.1403068	502.5883859			
692.154395	892.8411002	878.1878899	624.7981038			
821.0611284	-0.394538331	0.045088244	0.174722911			GNG11
7	93921699	93928610	+	3055		
protein_coding	G protein subunit	gamma	11	[Source:HGNC		
Symbol;Acc:HGNC:4403]	-	584	751	514	689	977
895	10.45433338	10.83833774	7.793891583			
10.90458705	13.93612223	13.67596109				
ENSG00000130270	38.1797353	57.47097073	107.5578258			
31.14192488	33.81281546	29.43646558	67.73617727			
31.46373531	1.108209462	0.045089415	0.174722911			ATP8B3
19	1782075	1812276	-	7014	protein_coding	ATPase
phospholipid	transporting	8B3	[Source:HGNC	Symbol;Acc:HGNC:13535]		
-	33	62	110	31	37	30
0.257301839	0.389726454	0.726489563	0.213696372			
0.229876492	0.19966481					
ENSG00000179918	1435.78944	1504.441702	1493.098181			
1847.41935	1750.955525	1744.601194	1477.776441			
1780.992023	-0.269062071	0.045117523	0.174761251			SEPHS2
16	30443631	30446181	-	2551		
protein_coding	selenophosphate	synthetase	2	[Source:HGNC		
Symbol;Acc:HGNC:19686]	-	1241	1623	1527	1839	1916
1778	26.60455724	28.05059121	27.72879738			
34.85559391	32.72982203	32.53623782				
ENSG00000157538	2149.634793	1823.312894	1838.261022			
2479.299052	2421.728675	2163.58022	1937.06957			
2354.869316	-0.282172053	0.045131281	0.174761251			VPS26C
21	37223420	37267919	-	9301		
protein_coding	VPS26 endosomal	protein sorting	factor	C	[Source:HGNC	
Symbol;Acc:HGNC:3044]	-	1858	1967	1880	2468	2650
2205	10.92473165	9.324137591	9.363337132			
12.82970668	12.41580341	11.06687451				
ENSG00000280241	5.784808379	9.269511408	2.933395248			
38.17397244	15.53561792	15.69944831	5.995905012			
23.13634622	-1.943101145	0.045142032	0.174761251			
AC079298.3	4	154142122	154298819	+	1376	
antisense	"novel transcript,	antisense to	DCHS2"	-		
5	10	3	38	17	16	0.198722153
0.320416981	0.100996256	1.33526166	0.538380207			
0.542809681						
ENSG00000109111	5266.489548	5862.965966	5915.680418			
7844.751336	5639.429304	7390.515293	5681.711977			
6958.231977	-0.292243125	0.045145037	0.174761251			SUPT6H
17	28662091	28702684	+	10620		
protein_coding	"SPT6 homolog,	histone chaperone	[Source:HGNC			

Symbol;Acc:HGNC:11470]" -	4552	6325	6050	7809	6171
7532	23.44080108	26.25850347	26.38963076		
35.55266188	25.32151157	33.10791492			
ENSG00000085978	926.7263022	935.2937011	854.5958157		
1277.823498	1214.519777	946.8729763	905.5386064		
1146.405417	-0.340359606	0.045184485	0.174869677		
ATG16L1 2	233210051	233295674	+	6047	
protein_coding	autophagy related 16 like 1 [Source:HGNC				
Symbol;Acc:HGNC:21498]" -	801	1009	874	1272	1329
965	7.244147095	7.356735731	6.695359791		
10.1706418	9.577311436	7.449607312			
ENSG00000173599	673.3516953	1022.427108	1237.892795		
524.3898319	779.5224754	813.4276656	977.8905328		
705.779991	0.470949909	0.045245755	0.175062481		PC
11	66848233	66958376	-	5927	
protein_coding	pyruvate carboxylase [Source:HGNC				
Symbol;Acc:HGNC:8636]" -	582	1103	1266	522	853
829	5.37010491	8.204923632	9.894668171		
4.258305273	6.271518413	6.529285201			
ENSG00000267064	12.72657843	0	11.73358099	0	0
0.981215519	8.153386476	0.32707184	4.555305243		
0.045259638	1	UXT-AS1 X	47658833		
47660377	+	1545	antisense	UXT antisense RNA 1	
[Source:HGNC	Symbol;Acc:HGNC:49239]" -				
0	0	1	0.389366797	0	0.359795078
0	0	0.030214649			
ENSG00000083812	295.0252273	346.6797267	469.3432398		
451.0556217	512.6753912	565.1801392	370.3493979		
509.6370507	-0.459548749	0.045260754	0.175076202		ZNF324
19	58467045	58475436	+	5664	
protein_coding	zinc finger protein 324 [Source:HGNC				
Symbol;Acc:HGNC:14096]" zf-C2H2	255	374	480	449	561
576	2.462133791	2.911268863	3.925730196		
3.832871971	4.316166745	4.747284667			
ENSG00000173875	798.3035562	594.1756813	572.9898719		
965.3996714	843.4926669	760.4420276	655.1563698		
856.4447886	-0.387617221	0.045282673	0.175116675		ZNF791
19	12610918	12633840	+	6642	
protein_coding	zinc finger protein 791 [Source:HGNC				
Symbol;Acc:HGNC:26895]" zf-C2H2	690	641	586	961	923
775	5.681263496	4.254936824	4.086967654		
6.995612304	6.055659221	5.44689329			
ENSG00000099889	40.49365865	86.2064561	75.29047804		
133.6089035	104.180026	119.7082934	67.3301976		
119.165741	-0.818374861	0.045309403	0.175134329		ARVCF
22	19969896	20016808	-	5621	
protein_coding	"ARVCF, delta catenin family member [Source:HGNC				
Symbol;Acc:HGNC:728]" -	35	93	77	133	114
122	0.340525133	0.729463089	0.634570086		
1.144034897	0.883791588	1.013193235			

ENSG00000113742	443.1163218	461.6216681	449.7872714		
692.154395	597.6643598	495.5138373	451.5084205		
595.110864	-0.39814052	0.045310151	0.175134329	CPEB4	
5	173888280	173961976	+ 10272		
protein_coding	cytoplasmic polyadenylation element binding protein 4				
[Source:HGNC Symbol;Acc:HGNC:21747]	-		383 498	460	
689	654 505	2.039099772	2.137510664		
2.074461011	3.243137991	2.774478319	2.294998485		
ENSG00000282855	0 0	1.955596832	12.05493866		
7.310879019	7.849724156	0.651865611			
9.07184728	-3.772391159	0.045323212	1	AC093591.3	
4	127809170	127809477	+ 308		
processed_pseudogene	INTS3 and NABP interacting protein (INIP)				
pseudogene	-	0 0 2	12 8 8		
0	0 0.300802703	1.883786785	1.131873438		
1.212509936					
ENSG00000100304	1548.014722	2235.806152	2038.709698		
2351.717618	2397.968318	2507.005652	1940.843524		
2418.897196	-0.317067252	0.04535085	0.175247332	TTL12	
22	43166622	43187133	- 4622		
protein_coding	tubulin tyrosine ligase like 12 [Source:HGNC				
Symbol;Acc:HGNC:28974]	-	1338 2412	2085 2341	2624	
2555	15.83145698	23.00812988	20.89674167		
24.48909235	24.73958939	25.80518632			
ENSG00000160219	174.701213	124.2114529	176.0037149		
129.5905906	84.9889686	74.57237948	158.3054603		
96.38397957	0.715703323	0.045408012	0.175379964	GAB3	
X	154675249	154751583	- 5272		
protein_coding	GRB2 associated binding protein 3 [Source:HGNC				
Symbol;Acc:HGNC:17515]	-	151 134	180 129	93	
76	1.566376859	1.120632864	1.581610572		
1.183083848	0.768716397	0.672952214			
ENSG00000182612	56.69112211	120.5036483	118.3136084		
114.5219173	173.6333767	221.7547074	98.50279293		
169.9700005	-0.78353557	0.045416994	0.175379964		
TSPAN10 17	81637171	81648749	+ 4745		
protein_coding	tetraspanin 10 [Source:HGNC Symbol;Acc:HGNC:29942]				
-	49 130	121 114	190 226		
0.564747837	1.207928125	1.181276623	1.161635434		
1.744921854	2.223403363				
ENSG00000177732	1041.265508	1619.383643	1832.394232		
1614.357203	1964.798736	2416.733824	1497.681128		
1998.629921	-0.415704212	0.045422888	0.175379964	SOX12	
20	325595 330224	+ 4630	protein_coding	SRY-	
box 12 [Source:HGNC Symbol;Acc:HGNC:11198]			HMG	900	1747
1874	1607 2150	2463	10.63056216	16.63588356	
18.74955874	16.78170576	20.2355991	24.83301533		
ENSG00000213654	219.8227184	490.3571535	500.6327891		
514.3440497	595.8366401	667.2265532	403.6042203		
592.469081	-0.551866672	0.045431063	0.175379964	GPSM3	

6	32190766	32195523	-	1854	
protein_coding	G protein signaling modulator 3				[Source:HGNC
Symbol;Acc:HGNC:13945]	-	190	529	512	512 652
680	5.604522072	12.57997854		12.79271389	
13.35246498	15.32485816	17.12163438			
ENSG00000273523	9.255693406	0.926951141		6.844588913	0
0	0	5.675744487	0	4.994019347	
0.045432927	1	AL139082.1	13	52128891	
52132723	+	3433	antisense	uncharacterized	
LOC101929657	[Source:NCBI gene;Acc:101929657]			-	8 1
7	0	0	0	0.127441506	0.012842813
0.094455378	0	0	0		
ENSG00000276740	35.86581195	21.31987624		12.71137941	
5.02289111	6.397019142	7.849724156		23.29902253	
6.423211469	1.854700402	0.045454765		0.175427165	
AL445649.1	13	107465984	107466674	-	691
sense_intronic	"novel transcript, sense intronic to FAM155A"				
-	31	23	13	5	7 8
2.453456482	1.467519047	0.871500741		0.349859099	
0.441447021	0.540453054				
ENSG00000163632	35.86581195	22.24682738		15.64477466	
89.40746176	32.89895559	51.02320701		24.58580466	
57.77654145	-1.237210049	0.045482124		0.175488446	
C3orf49 3	63819362	63848636		+	1581
protein_coding	chromosome 3 open reading frame 49				[Source:HGNC
Symbol;Acc:HGNC:25190]	-	31	24	16	89 36
52	1.072320322	0.669288449		0.468803201	
2.721819701	0.992268555	1.535385764			
ENSG00000260541	2.313923351	1.853902282		2.933395248	
13.05951689	17.36333767	9.812155195		2.367073627	
13.41166992	-2.50426314	0.045556697		1	AL031722.1
16	1841020	1843547	-	220	sense_overlapping
"novel transcript, overlapping C16orf73"					- 2
2	3	13	19	10	0.497166695
0.400812514	0.631685677	2.857076625		3.763479181	
2.121892389					
ENSG00000198846	275.3568788	141.8235245		160.3589403	
352.6069559	305.2291991	227.6420005		192.5131145	
295.1593852	-0.619698271	0.045574829		0.175754605	TOX
8	58805418	59119208		-	4131
protein_coding	thymocyte selection associated high mobility group box				
[Source:HGNC Symbol;Acc:HGNC:18988]	HMG			238	153 164
351	334	232	3.150768354	1.632939873	
1.839039718	4.108214754	3.523301994		2.621674837	
ENSG00000187742	1160.432561	1214.305995		1053.088894	
1255.722778	1587.374607	1416.87521		1142.60915	
1419.990865	-0.31374401	0.045581256		0.175754605	
SECISBP2	9	89318506	89359662	+	9813
protein_coding	SECIS binding protein 2				[Source:HGNC
Symbol;Acc:HGNC:30972]	-	1003	1310	1077	1250 1737

1444	5.589768821	5.885772273	5.084126645	
6.158989031	7.713591176	6.869283339		
ENSG00000129028	303.123959	168.7051076	258.1387819	
189.865284	172.7195168	88.30939675	243.3226162	
150.2980658	0.693523308	0.045589067	0.175754605	THAP10
15	70881342	70892785	- 2399	
protein_coding	THAP domain containing 10 [Source:HGNC			
Symbol;Acc:HGNC:23193]	THAP	262 182	264 189	189
90	5.97263199	3.344838073	5.097721845	
3.809191203	3.43312925	1.751290925		
ENSG00000108819	2021.212047	2745.629279	3559.186235	
3563.238954	3150.074997	4078.912914	2775.34252	
3597.408955	-0.373919577	0.045597093	0.175754605	
PPP1R9B 17	50133735	50150630	- 4298	
protein_coding	protein phosphatase 1 regulatory subunit 9B			
[Source:HGNC	Symbol;Acc:HGNC:9298]	-	1747 2962	3640
3547	3447 4157	22.22906555	30.38453546	
39.23172717	39.90212215	34.94889669	45.15019696	
ENSG00000116793	1531.817259	1282.900379	1476.475608	
1209.512179	760.331418	1291.279624	1430.397749	
1087.041074	0.396152806	0.045642555	0.17588549	PHTF1
1	113696831	113759489	- 7170	
protein_coding	putative homeodomain transcription factor 1			
[Source:HGNC	Symbol;Acc:HGNC:8939]	-	1324 1384	1510
1204	832 1316	10.09865515	8.510418017	
9.755740674	8.119112287	5.05664853	8.568065334	
ENSG00000138821	1349.017314	1119.756978	1142.06855	
947.3172634	907.4628583	1041.069666	1203.614281	
965.2832626	0.317894009	0.045667417	0.175936947	
SLC39A8 4	102251041	102431258	- 6480	
protein_coding	solute carrier family 39 member 8 [Source:HGNC			
Symbol;Acc:HGNC:20862]	-	1166 1208	1168 943	993
1061	9.840524734	8.219130696	8.349688866	
7.03619559	6.677791275	7.643396935		
ENSG00000169926	539.1441409	520.01959	548.5449115	
569.5958519	778.6086156	744.7425793	535.9028808	
697.6490156	-0.380939764	0.045718474	0.176051916	KLF13
15	31326855	31435665	+ 9409	
protein_coding	Kruppel like factor 13 [Source:HGNC			
Symbol;Acc:HGNC:13672]	zf-C2H2	466 561	561 567	852
759	2.708551895	2.628774605	2.761988389	
2.913672982	3.945978585	3.765688076		
ENSG00000160305	966.0629992	1024.281011	1146.957542	
791.607639	626.9078759	986.1215971	1045.767184	
801.545704	0.384245481	0.045720292	0.176051916	DIP2A
21	46458899	46569852	+ 13557	
protein_coding	disco interacting protein 2 homolog A [Source:HGNC			
Symbol;Acc:HGNC:17217]	-	835 1105	1173 788	686
1005	3.368352948	3.593624041	4.008084527	
2.810372181	2.205053431	3.460576877		

ENSG00000255434	0	0	0	10.04578222	0		
9.812155195	0	6.619312472		-5.144992207	0.045725127		
1	AP001922.6	11		75596144	75597270		
-	546	sense_intronic		novel transcript			-
0	0	0	10	0	10	0	0
0	0.885540797	0		0.854974955			
ENSG00000116209	4052.83675		3981.25515		3855.459155		
2884.144075	3514.705089		3499.014542		3963.183685		
3299.287902	0.264383724		0.045735404		0.176065758		TMEM59
1	54026681		54053504		-	9149	
protein_coding	transmembrane protein 59		[Source:HGNC				
Symbol;Acc:HGNC:1239]	-	3503	4295	3943	2871		3846
3566	20.93925484		20.69776723		19.96436978		
15.172627	18.31868311		18.19507068				
ENSG00000169228	30.08100357		57.47097073		82.13506696		
69.31589732	102.3523063		160.9193452		56.56234709		
110.8625163	-0.966857476		0.045780019		0.176193139		RAB24
5	177301198		177303744		-	2065	
protein_coding	"RAB24, member RAS oncogene family		[Source:HGNC				
Symbol;Acc:HGNC:9765]"	-	26	62	84	69		112
164	0.688569853		1.323748837		1.884350494		
1.615586633	2.363505212		3.707403263				
ENSG00000237849	0	0	0	13.05951689	0		
6.868508636	0	6.642675174		-5.149888522	0.045795673		
1	NFYAP1	13	63975451		63976422		-
972	processed_pseudogene		nuclear transcription factor Y				
subunit alpha	pseudogene 1		[Source:HGNC Symbol;Acc:HGNC:34078]				-
0	0	0	13	0	7	0	0
0	0.646663434		0		0.336184597		
ENSG00000243547	143.4632478		101.0376744		147.6475608		
67.30674088	86.81668835		82.42210364		130.716161		
78.84851096	0.72750107		0.045870562		0.176497175		
HNRNPKP4	3	96349554		96350939	+		1386
	processed_pseudogene		heterogeneous nuclear				
ribonucleoprotein K	pseudogene 4		[Source:HGNC Symbol;Acc:HGNC:42377]				
-	124	109	151	67	95	84	
4.8927516	3.467346354		5.046800911		2.337291012		
2.986888239	2.829189852						
ENSG00000000003	1861.551336		1167.958437		1423.674494		
1141.20086	1127.703089		1195.120503		1484.394756		
1154.674817	0.361637304		0.045964337		0.176813491		TSPAN6
X	100627109		100639991		-	4535	
protein_coding	tetraspanin 6		[Source:HGNC Symbol;Acc:HGNC:11858]				
-	1609	1260	1456	1136	1234	1218	
19.4032047	12.24974961		14.87258773		12.11162056		
11.85759099	12.53764685						
ENSG00000179954	254.5315687		204.8562021		442.9426825		
212.9705831	144.3898606		220.7734919		300.7768178		
192.7113119	0.643131121		0.045989924		0.176867414		SSC5D
19	55488404		55519098		+	7314	

protein_coding	scavenger receptor cysteine rich family member with 5 domains	[Source:HGNC Symbol;Acc:HGNC:26641]	-	220	221	
	453	212	158	225	1.644986877	1.332205664
	2.869100108	1.401464565	0.941370812	1.436063348		
ENSG00000121440	261.4733387	328.1407039	400.8973506			
249.1353991	258.6223453	176.6187935	330.1704644			
228.1255126	0.534151736	0.046030991	0.176980824			PDZRN3
	3	73382433	73624940	-	6136	
protein_coding	PDZ domain containing ring finger 3	[Source:HGNC Symbol;Acc:HGNC:17704]	-	226	354	410
	180	2.01427054	2.54361788	3.09528727	248	283
1.954193419	2.009831656	1.369409038				
ENSG00000273382	18.51138681	16.68512054	15.64477466			
17.07782977	44.77913399	72.60994844	16.947094			
44.82230407	-1.404923361	0.046067244	0.177075675			
AL356488.3	1	109087971	109090858	-		2888
	antisense	"novel transcript, antisense to TMEM167B"				
	-	16	18	16	17	49
						74
0.302982473	0.274795283	0.256640534	0.284611831			
0.739362618	1.196136014					
ENSG00000265867	0	0	0	14.06409511	0	
5.887293117	0	6.650462742	-5.15152246	0.046072071		
	1	MIR4516	16	2133119	2133204	+
						86
	microRNA	4516	[Source:HGNC Symbol;Acc:HGNC:41617]			miRNA
	0	0	0	14	0	6
	0	0	0	0	0	0
	0	7.871016103	0	3.256858085		
ENSG00000206647	5.784808379	0	13.68917783	0	0	
	0	6.491328735	0	5.190814819	0.046193462	
	1	RF00410	2	10155072	10155206	-
	135	snoRNA		-	5	0
	0	0	2.025493942	0	4.803930581	0
	0	0				
ENSG00000232815	20.82531016	63.95962872	45.95652556			
94.43035287	69.45335068	99.10276747	43.58048815			
87.66215701	-1.000972319	0.046197179	0.177530486			
DUX4L50	9	63817748	63818462	-	715	
unprocessed_pseudogene	double homeobox 4 like 50 (pseudogene)	[Source:HGNC Symbol;Acc:HGNC:51788]	-	18	69	47
	94	76	101	1.376769309	4.254778999	
3.045048904	6.356572845	4.631974376	6.594188655			
ENSG00000133812	1191.670526	1157.761975	1169.446906			
1089.967371	910.2044379	789.8784932	1172.959802			
930.0167673	0.33489158	0.046258449	0.177721263			SBF2
	11	9778667	10294207	-	16767	protein_coding
	SET binding factor 2	[Source:HGNC Symbol;Acc:HGNC:2135]	-			
	1030	1249	1196	1085	996	805
						3.359514912
	3.284286476	3.304290876	3.12878406	2.588585844		
	2.241230644					
ENSG00000184995	27.76708022	30.58938765	14.66697624			
58.26553688	37.46825497	69.66630188	24.34114804			

55.13336458	-1.179555348	0.046321395	0.177918383	IFNE
9	21480839	21482313	- 1475	
protein_coding	interferon epsilon [Source:HGNC Symbol;Acc:HGNC:18163]			
-	24 33	15 58	41 71	
0.889844118	0.986406391	0.471087624	1.901241081	
1.211296421	2.247048076			
ENSG00000100906	2058.234821	2827.20098	2044.576488	
2546.605793	3604.263357	2700.30511	2310.004096	
2950.39142	-0.352858355	0.046344636	0.177962936	NFKBIA
14	35401511	35404749	- 2373	
protein_coding	NFKB inhibitor alpha [Source:HGNC			
Symbol;Acc:HGNC:7797]	-	1779 3050	2091 2535	3944
2752	40.99896777	56.66776172	40.81866064	
51.65132204	72.42654458	54.13731681		
ENSG00000266088	13.88354011	12.05036483	5.866790497	0
0	2.943646558	10.60023181	0.981215519	
3.440743718	0.046354347	1 AC004585.1	17	
40517026	40527002	+ 1198	lincRNA novel	
transcript	- 12	13 6	0 0	3
	0.547796358	0.4784323	0.232004756	0
	0.116898913			
ENSG00000140332	558.8124894	656.2814077	804.7280965	
831.7907678	918.4291768	859.5447951	673.2739979	
869.9215799	-0.368969505	0.046368937	0.178011539	TLE3
15	70047790	70098176	- 12634	
protein_coding	transducin like enhancer of split 3 [Source:HGNC			
Symbol;Acc:HGNC:11839]	-	483 708	823 828	1005
876	2.090744538	2.470736	3.017598245	
3.16876973	3.466440794	3.23675084		
ENSG00000204390	31.23796524	29.66243651	31.28954932	
71.32505376	53.91773277	60.83536221	30.72998369	
62.02604958	-1.013068229	0.046399899	0.178085678	HSPA1L
6	31809619	31815065	- 2544	
protein_coding	heat shock protein family A (Hsp70) member 1 like			
[Source:HGNC Symbol;Acc:HGNC:5234]	-		27 32	32
71	59 62	0.580418665	0.554583353	
0.582686998	1.349405445	1.010633064	1.137681297	
ENSG00000186106	378.326468	489.4302024	396.986157	
548.4997092	583.0426018	531.8188116	421.5809424	
554.4537075	-0.39431672	0.046422047	0.178125961	
ANKRD46 8	100509752	100559784	- 5820	
protein_coding	ankyrin repeat domain 46 [Source:HGNC			
Symbol;Acc:HGNC:27229]	-	327 528	406 546	638
542	3.072695191	3.999860968	3.231510004	
4.535977321	4.777011555	4.347327293		
ENSG00000090006	1468.184366	2276.592002	2065.110255	
2603.866751	2190.522126	2589.427756	1936.628874	
2461.272211	-0.345181347	0.046469151	0.178261959	LTBP4
19	40592883	40629818	+ 8108	
protein_coding	latent transforming growth factor beta binding protein			

4	[Source:HGNC Symbol;Acc:HGNC:6717]	-	1269	2456	2112
	2592	2397	2639	8.55938566	13.35514416
12.06653646		15.45690272		12.88287793	15.19398475
ENSG00000263815		2.313923351		17.61207168	0 0 0
	0	6.641998343	0	5.228088844	0.046482281
	1	RN7SL426P	17	21229334	21229628
	-	295	misc_RNA	"RNA, 7SL, cytoplasmic 426,	
pseudogene	[Source:HGNC Symbol;Acc:HGNC:46442]"	-		2	19
	0	0	0	0.370768383	2.839654763
	0	0	0	0	0
ENSG00000153317		3386.426825		2893.941462	3624.698729
	3152.366461	2405.279197		2447.151506	3301.689005
	2668.265721	0.307323267		0.046485423	0.178279643
	8	130052104		130443660	- 8280
protein_coding	"ArfGAP with SH3 domain, ankyrin repeat and PH domain				
1	[Source:HGNC Symbol;Acc:HGNC:2720]"	-	2927	3122	3707
	3138	2632	2494	19.33245903	16.62403788
20.73932919		18.32414919		13.85205304	14.06086855
ENSG00000240135		0	0	0	15.06867333
	4.906077597	0	6.658250309	-5.153158626	0.046521611
	1	PSMD12P 3	72876737	72878102	-
	1366	unprocessed_pseudogene	"proteasome 26S subunit, non-		
ATPase, 12	pseudogene [Source:HGNC Symbol;Acc:HGNC:30153]"	-			
	0	0	0	15	0 5 0
	0	0.530935514	0	0.170869812	
ENSG00000115896		13.88354011		14.83121825	18.57816991
	31.14192488	70.36721056		23.54917247	15.76430942
	41.68610264	-1.403247275		0.046562271	0.178529581
	2	197804702		198572581	+ 8013
protein_coding	phospholipase C like 1 (inactive) [Source:HGNC				
Symbol;Acc:HGNC:9063]	-	12	16	19	31 77
	24	0.081899418		0.088035695	0.109840099
	0.187054331	0.418749383		0.139817694	
ENSG00000124224		481.2960571		435.6670362	355.9186235
	293.3368408	294.2628805		348.3315094	424.2939056
	311.9770769	0.443005876		0.046676551	0.178860739
PPP4R1L 20		58228940		58309439	- 9251
transcribed_unprocessed_pseudogene	protein phosphatase 4				
regulatory subunit 1 like (pseudogene) [Source:HGNC					
Symbol;Acc:HGNC:15755]	-	416	470	364	292 322
	355	2.459231213		2.239974813	1.822699853
	1.526143555	1.516791159		1.791371696	
ENSG00000025796		2232.936034		2004.995318	2357.471981
	1915.730669	1773.802022		1769.131582	2198.467778
	1819.554758	0.27285176		0.046682554	0.178860739
	6	107867756		107958189	- 8587
protein_coding	"SEC63 homolog, protein translocation regulator				
[Source:HGNC Symbol;Acc:HGNC:21082]"	-		1930	2163	2411
	1907	1941	1803	12.29166057	11.10577868
13.00643286		10.73767974		9.850146057	9.801675032

ENSG00000199906	0	0	0.977798416	0	22.84649694	
	2.943646558	0.325932805	8.596714498		-4.564460808	
	0.046682609	1	RNU5B-2P	3	40498891	
	40499003	-	113 snRNA		"RNA, U5B small	
nuclear 2, pseudogene [Source:HGNC Symbol;Acc:HGNC:34182]"						-
	0	0	1	0	25	3
	0	0	0	0	0	0
	0.409943507	0	9.640957379	1.239335378		
ENSG00000104951	30.08100357		71.37523785	60.6235018		
102.4669786	133.4235421		72.60994844	54.02658107		
102.8334897	-0.923937139		0.046683741	0.178860739		IL4I1
	19	49889654	49929539	-	2563	
protein_coding interleukin 4 induced 1 [Source:HGNC Symbol;Acc:HGNC:19094]		-	26	77	62	102
	74	0.554778286	1.324573545	1.120586895		146
	1.924211395	2.482349042	1.347811474			
ENSG00000138079	8.09873173		0.926951141	7.822387329		0
	0	0	5.6160234	0	4.979553444	
0.046696803	1	SLC3A1	2	44275458	44321494	
	+	6541	protein_coding	solute carrier family 3 member		
1 [Source:HGNC Symbol;Acc:HGNC:11025]		-	7	1		8
	0	0	0.058525968	0.006740464		
0.056656311	0	0	0			
ENSG00000260953	4.627846703		5.561706845	5.866790497		0
	0	0	5.352114682	0	4.913680816	
0.046699344	1	AC009093.4	16	29262273		
29264479	-	561	lincRNA novel transcript			-
	4	6	6	0	0	0.389934663
	0.471544135	0.495439747	0	0	0	
ENSG00000251333	38.1797353		14.83121825	20.53376674		0
	2.741579632	12.75580175	24.51490676	5.165793795		
	2.244627461	0.046717825	0.178946479	RTN3P1	4	
	145375543	145376253	+	711		
processed_pseudogene reticulon 3 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:19212]		-	33	16	21	0
	13	2.538277218	0.992165999	1.368208077		3
	0.183869736	0.85353196				0
ENSG00000119401	558.8124894		516.3117855	647.3025515		
768.5023398	709.1552649		725.1182689	574.1422754		
734.2586245	-0.354797619		0.046785623	0.179120643		TRIM32
	9	116687302	116701300	+	3780	
protein_coding tripartite motif containing 32 [Source:HGNC Symbol;Acc:HGNC:16380]		-	483	557	662	765
	739	6.9879541	6.496767924	8.112760317		776
	9.785225802	8.945992282	9.126382661			
ENSG00000275160	37.02277362		33.37024107	40.08973506		
24.10987733	9.138598774		4.906077597	36.82758325		
12.71818457	1.537026365		0.04679492	0.179120643		
AL354718.1	9	41479960	41480548	+		589
processed_pseudogene ribosomal protein L7a (RPL7A)		-	32	36	41	24
pseudogene			36	41	24	10
						5

	2.971182964	2.69476665	3.224564124	1.970140339	
	0.739849361	0.396278714			
ENSG00000119013	350.5593877	431.0322805	400.8973506		
179.8195017	164.4947779	415.0541647	394.1630063		
253.1228148	0.639785034	0.046798446	0.179120643		NDUFB3
2	201071433	201085750	+	1103	
protein_coding	NADH:ubiquinone oxidoreductase subunit B3 [Source:HGNC				
Symbol;Acc:HGNC:7698]	-	303	465	410	179
423	15.02317855	18.58708985	17.21911395		180
7.846549792	7.111407909	17.90238492			
ENSG00000152760	30.08100357	6.488657986	2.933395248		0
0	3.924862078	13.1676856	1.308287359		
3.332805194	0.046814799	1	TCTEX1D1	1	
66752459	66778787	+	3100	protein_coding	Tctex1
domain containing 1 [Source:HGNC	Symbol;Acc:HGNC:26882]	-			26
7	3	0	0	4	0.45867637
0.099556657	0.044829306	0	0	0.060234365	
ENSG00000133895	1172.002177	1623.091448	1571.322055		
1777.098875	1559.958811	2287.213376	1455.471893		
1874.75702	-0.364557799	0.046901646	0.179470008		MEN1
11	64803510	64811294	-	4246	
protein_coding	menin 1 [Source:HGNC	Symbol;Acc:HGNC:7010]			-
1013	1751	1607	1769	1707	2331
18.18193556	17.53227777	20.14415524	17.51911361		
25.62762258					
ENSG00000272047	426.9188583	412.4932577	470.3210382		
616.8110283	557.4545252	526.912734	436.5777181		
567.0594292	-0.377110371	0.046913204	0.179470008		GTF2H5
6	158168350	158199344	+	7565	
protein_coding	general transcription factor IIH subunit 5				
[Source:HGNC	Symbol;Acc:HGNC:21157]	-	369	445	481
614	610	537	2.667547408	2.59349274	
2.94536146	3.924286038	3.513819919	3.313686277		
ENSG00000285584	61.31896881	83.42560268	55.73450972		
74.33878843	134.337402	147.1823279	66.8263604		
118.6195061	-0.826906356	0.046938638	0.179502308		
AL158800.1	14	97180525	97217778	+	1320
lincRNA	novel transcript	-	53	90	57
74	147	150	2.195819569	3.006093858	
2.000337977	2.710559875	4.852907364	5.304730972		
ENSG00000176124	166.6024813	139.9696223	147.6475608		
98.44866576	77.67808958	110.8773537	151.4065548		
95.66803635	0.662261953	0.046945132	0.179502308		DLEU1
13	50082171	50723236	+	12394	
processed_transcript	deleted in lymphocytic leukemia 1 [Source:HGNC				
Symbol;Acc:HGNC:13747]	-	144	151	151	98
113	0.635397809	0.537154741	0.564375187		85
0.382310125	0.298858789	0.425611141			
ENSG00000184208	388.739123	520.9465412	457.6096588		
655.989579	543.7466271	600.5038979	455.7651077		

600.0800347	-0.395400105	0.046995454	0.179649787		
C22orf46	22	41688939	41698136	+	5341
	protein_coding	chromosome 22	open reading frame 46		
[Source:HGNC Symbol;Acc:HGNC:26294]		-	336	562	468
	653	595	612	3.440419592	4.639249136
4.059062429	5.911420044	4.85459479	5.349028108		
ENSG00000088280	84.45820233	88.98730952	211.2044579		
106.4852915	51.17615314	35.3237587	128.2166566		
64.32840112	0.997180915	0.047016542	0.179655785		ASAP3
	1	23428563	23484568	-	4988
protein_coding	"ArfGAP with SH3 domain, ankyrin repeat and PH domain				
3 [Source:HGNC Symbol;Acc:HGNC:14987]"		-	73	96	216
	106	56	36	0.800370601	0.848552556
2.005994612	1.027497176	0.489237998	0.336916354		
ENSG00000121864	1608.176729	1249.530138	1241.803989		
777.5435438	1246.504873	1104.848675	1366.503619		
1042.965697	0.389020476	0.047028875	0.179655785		ZNF639
	3	179322991	179338583	+	6859
protein_coding	zinc finger protein 639 [Source:HGNC				
Symbol;Acc:HGNC:30950]	zf-C2H2	1390	1348	1270	774
	1126	11.08277994	8.664889871	8.57719678	1364
5.4560881	8.66586991	7.663437565			
ENSG00000141994	867.7212568	1477.560119	1356.206403		
1795.181283	1432.018428	1626.855331	1233.82926		
1618.018347	-0.390094659	0.047032279	0.179655785		DUS3L
	19	5784832	5791238	-	3642
dihydrouridine synthase 3 like	[Source:HGNC Symbol;Acc:HGNC:26920]				
	-	750	1594	1387	1787
				1567	1658
11.26201327	19.29666839	17.64164081	23.72388595		
18.74941202	21.25155046				
ENSG00000103522	42.807582	43.56670362	151.5587545		
47.21517644	17.36333767	37.28618974	79.31101338		
33.95490128	1.227346561	0.047080473	0.17979495		IL21R
	16	27402162	27452042	+	5467
protein_coding	interleukin 21 receptor [Source:HGNC				
Symbol;Acc:HGNC:6006]		-	37	47	155
	38	0.370124099	0.379037991	1.313363916	19
0.415671263	0.151447854	0.32447449			
ENSG00000167447	926.7263022	983.4951604	875.1295825		
1157.274112	1172.482223	1098.961382	928.4503484		
1142.905905	-0.299742121	0.047135496	0.179960122		SMG8
	17	59209400	59215247	+	3752
protein_coding	"SMG8, nonsense mediated mRNA decay factor				
[Source:HGNC Symbol;Acc:HGNC:25551]"		-	801	1061	895
	1152	1283	1120	11.67520189	12.46770484
11.05000975	14.84536452	14.90124051	13.93481569		
ENSG00000100156	1.156961676	0	2.933395248	18.082408	
	7.310879019	8.830939675	1.363452308	11.40807556	
	-3.068235707	0.047152629	1	SLC16A8	22
38078134	38084093	-	2203	protein_coding	solute

```

carrier family 16 member 8 [Source:HGNC Symbol;Acc:HGNC:16270] -
    1      0      3      18      8      9      0.024824483
    0      0.063082546      0.395056512      0.158246491
0.190710256
ENSG00000279236 10.41265508      0      8.800185745      0      0
    0      6.404280276      0      5.16883812      0.047164902
    1      AC064801.2      18      62551203      62552505
    +      1303      TEC      novel transcript      -      9
    0      9      0      0      0      0.377739853      0
    0.319963582      0      0      0
ENSG00000229097 34.70885027      36.15109449      22.48936357
14.06409511      2.741579632      12.75580175      31.11643611
9.853825498      1.663871718      0.047176897      0.180073213
CALM2P2 10      70163685      70164124      +      440
processed_pseudogene      calmodulin 2 pseudogene 2 [Source:HGNC
Symbol;Acc:HGNC:1447] -      30      39      23      14      3
    13      3.728750211      3.907922015      2.421461762
1.538425875      0.297116777      1.379230053
ENSG00000106633 0      0.926951141      0      11.05036044      0
    13.73701727      0.308983714      8.262459238      -4.503017
    0.047180863      1      GCK      7      44144271
44198170      -      4122      protein_coding      glucokinase
[Source:HGNC Symbol;Acc:HGNC:4195] -      0      1      0
    11      0      14      0      0.010696113      0
0.129028579      0      0.158549941
ENSG00000229191 5.784808379      7.415609127      2.933395248      0
    0      0      5.377937585      0      4.920103021
0.047207897      1      AL358473.1      1      201023949
201028792      +      3508      antisense      "novel transcript,
antisense KIF21B" -      5      8      3      0      0
    0      0.077948028      0.100545899      0.039615407      0
    0      0
ENSG00000126878 20.82531016      18.53902282      25.42275882      0
    6.397019142      7.849724156      21.59569727      4.748914433
    2.180084276      0.04722163      0.180155084      AIF1L      9
    131096476      131123152      +      5299      protein_coding
allograft inflammatory factor 1 like [Source:HGNC
Symbol;Acc:HGNC:28904] -      18      20      26      0      7
    8      0.185769024      0.166406403      0.227290814      0
    0.057565558      0.070476139
ENSG00000160211 1777.093134      2356.3098      2244.047365
1713.810447      1698.865512      1775.018875      2125.816766
1729.231611      0.298387259      0.047221916      0.180155084      G6PD
    X      154531390      154547572      -      3995
protein_coding      glucose-6-phosphate dehydrogenase [Source:HGNC
Symbol;Acc:HGNC:4057] -      1536      2542      2295      1706      1859
    1809      21.02660445      28.05386615      26.61143916
20.64730911      20.27781721      21.13819106
ENSG00000117335 3093.715521      2600.09795      3021.397106
2222.127027      2428.125694      2563.916152      2905.070192

```

2404.722958	0.272459488	0.047234822	0.180159362	CD46
1	207752057	207795513	+ 8708	
protein_coding	CD46 molecule [Source:HGNC Symbol;Acc:HGNC:6953]			
-	2674 2805	3090 2212	2657 2613	
16.79336376	14.20196386	16.43775544	12.28196679	
13.29632836	14.00770623			
ENSG00000237781	6.941770054	7.415609127	1.955596832	0
0	0	5.437658671	0	4.935120551
0.047243619	1	AL356356.1	1	150548562
150557724	-	665	antisense	"novel transcript,
antisense to ADAMTSL4"	-	6	8	2 0 0
0	0.493428599	0.530398515	0.139319147	0
0	0			
ENSG00000143353	664.0960019	517.2387366	446.8538762	
646.948375	801.4551125	702.5503119	542.7295382	
716.9845998	-0.403189135	0.047268702	0.180229755	
LYPLAL1 1	219173844	219212865	+ 2966	
protein_coding	lysophospholipase like 1 [Source:HGNC			
Symbol;Acc:HGNC:20440]	-	574 558	457 644	877
716	10.58364973	8.294629849	7.13752281	
10.49822647	12.88507778	11.26906571		
ENSG00000151694	1047.050317	899.1426066	1121.534783	
789.5984825	892.8411002	748.6674414	1022.575902	
810.369008	0.335102341	0.047276857	0.180229755	ADAM17
2	9488486 9556732	- 10750	protein_coding	ADAM
metallopeptidase domain 17 [Source:HGNC Symbol;Acc:HGNC:195]				-
905	970 1147	786 977	763	4.603994834
3.978297235	4.942622131	3.535210661	3.960451481	
3.313310292				
ENSG00000127870	2313.923351	1854.829233	1656.390517	
2408.978576	2393.399019	2387.297359	1941.714367	
2396.558318	-0.304162794	0.047336618	0.180393263	RNF6
13	26132115	26222493	- 4621	
protein_coding	ring finger protein 6 [Source:HGNC			
Symbol;Acc:HGNC:10069]	-	2000 2001	1694 2398	2619
2433	23.66948125	19.09172096	16.9816503	
25.09079527	24.69779194	24.57831898		
ENSG00000285533	24.29619519	52.83621503	45.95652556	
88.40288354	56.6593124	100.083983	41.02964526	
81.71539297	-0.98769037	0.047343349	0.180393263	
AP001362.2	11	65663086	65671716	+ 824
lincRNA uncharacterized LOC105369347 [Source:NCBI				
gene;Acc:105369347]	-	21 57	47 88	62
102	1.393756147	3.049871924	2.642245105	
5.163648567	3.278861524	5.778551603		
ENSG00000004848	3.470885027	0	0.977798416	13.05951689
6.397019142	15.69944831	1.482894481	11.71866145	
-3.030099593	0.047353831	1	ARX X	
25003694	25016420	-	3097	protein_coding
aristaless related homeobox [Source:HGNC Symbol;Acc:HGNC:18060]				

Homeobox	3	0	1	13	7	16			
0.052975463	0	0.014957577		0.202956686		0.098495283			
	0.241170849								
ENSG00000145868	1233.321146		1096.5832		1057.977886				
1481.752877	1538.026174		1203.951442		1129.294077				
1407.910165	-0.318634431		0.047370141		0.180450374		FBX038		
5	148383935		148442836		+ 8722				
protein_coding	F-box protein 38	[Source:HGNC	Symbol;Acc:HGNC:28844]						
-	1066 1183	1082	1475	1683	1227				
6.683990671	5.980019777	5.746635273		8.176682877					
8.408656883	6.567113408								
ENSG00000137100	937.1389573		1067.847714		1064.822475				
772.5206527	785.0056347		899.7746314		1023.269716				
819.1003063	0.321549413		0.04739357		0.180494645		DCTN3		
9	34613545		34620523		- 3740				
protein_coding	dynactin subunit 3	[Source:HGNC	Symbol;Acc:HGNC:2713]						
-	810 1152	1089	769	859	917				
11.84426538	13.58047107	13.4883471		9.941592418					
10.00875733	11.44573718								
ENSG00000213024	2949.095311		3099.724615		3262.913315				
3565.24811	3820.848147		3641.290793		3103.91108				
3675.795683	-0.24388468		0.047446286		0.180640456		NUP62		
19	49906825		49929763		- 6020				
protein_coding	nucleoporin 62	[Source:HGNC	Symbol;Acc:HGNC:8066]						
-	2549 3344	3337	3549	4181	3711				
23.15624079	24.49084307	25.67805775		28.5043226					
30.26511121	28.77666751								
ENSG00000144802	800.6174796		948.2710171		780.2831361				
772.5206527	632.3910352		539.6685357		843.0572109				
648.1934079	0.379709703		0.04745549		0.180640456		NFKBIZ		
3	101827991		101861022		+ 5902				
protein_coding	NFKB inhibitor zeta	[Source:HGNC	Symbol;Acc:HGNC:29805]						
550	6.412119419	7.642059004	6.263342226	798	769	692			
6.29982305	5.109348039	4.350202966							
ENSG00000104856	671.0377719		1130.880392		750.9491836				
1046.770507	1459.434224		960.6099936		850.9557825				
1155.604908	-0.440866419		0.047488442		0.180694909		RELB		
19	45001430		45038198		+ 3035				
protein_coding	"RELB proto-oncogene, NF-kB subunit	[Source:HGNC	Symbol;Acc:HGNC:9956]"	RHD	580	1220	768	1042	1597
979	10.45114831	17.7229125	11.72208808						
16.60008226	22.93004032	15.05809498							
ENSG00000170296	223.2936034		183.5363259		260.0943787				
337.5382826	345.4390337		263.9469747		222.3081027				
315.6414303	-0.506325234		0.047493435		0.180694909				
GABARAP 17	7240014 7242770	-	2266		protein_coding	GABA			
type A receptor-associated protein	[Source:HGNC	Symbol;Acc:HGNC:4067]							
-	193 198	266	336	378	269				
4.657920976	3.852469798	5.437811977		7.1693633					

7.269264845	5.541641287						
ENSG00000139324	1401.080589	1101.217955	1230.070408				
1014.624004	1083.837815	866.4133037	1244.122984				
988.2917075	0.331431562	0.047545549	0.180848172	TMTC3			
12	88142296	88199887	+ 7327				
protein_coding	transmembrane and tetratricopeptide repeat containing						
3 [Source:HGNC	Symbol;Acc:HGNC:26899]	-	1211 1188	1258			
1010	1186 883	9.038839282	7.148652842				
7.953474727	6.664942373	7.053701794	5.625751542				
ENSG00000167555	94.87085741	140.8965734	64.53469547				
182.8332364	216.5847909	112.8397847	100.1007088				
170.752604	-0.769583709	0.047608326	0.18104191	ZNF528			
19	52397849	52418412	+ 8530				
protein_coding	zinc finger protein 528 [Source:HGNC						
Symbol;Acc:HGNC:29384]	zf-C2H2	82 152	66 182	237			
115	0.525726095	0.785648914	0.358424229				
1.031629074	1.210759576	0.62935378					
ENSG00000110455	240.6480285	224.3221761	289.4283312				
167.7645631	92.29984762	219.7922764	251.4661786				
159.952229	0.653899918	0.047624292	0.181057585	ACCS			
11	44065925	44084222	+ 5826				
protein_coding	1-aminocyclopropane-1-carboxylate synthase homolog						
(inactive) [Source:HGNC	Symbol;Acc:HGNC:23989]	-	208	242			
296	167 101	224	1.952484377	1.831381588			
2.353551395	1.385948866	0.75545655	1.794831049				
ENSG00000215251	426.9188583	451.4252056	428.2757063				
513.3394715	700.930526	515.1381477	435.5399234				
576.4693817	-0.404723109	0.047676093	0.181209456				
FASTKD5 20	3146519 3159897	- 2874	protein_coding	FAST			
kinase domains 5 [Source:HGNC	Symbol;Acc:HGNC:25790]	-		369			
487	438 511	767 525	7.021571379				
7.4709556	7.05975781	8.596770894	11.62966482				
8.527438097							
ENSG00000243244	96.02781908	87.13340724	162.3145371				
32.1465031	85.90282848	64.76022428	115.1585878				
60.93651862	0.916787531	0.047717122	0.18132032	STON1			
2	48529383	48598513	+ 7709				
protein_coding	stonin 1 [Source:HGNC Symbol;Acc:HGNC:17003]			-			
83	94 166	32 94	66	0.588809434			
0.537605578	0.997499067	0.20070267	0.531359446				
0.399661143							
ENSG00000227057	3240.649654	4225.970251	3746.923531				
4574.849223	4155.320863	4880.565994	3737.847812				
4536.912027	-0.279187057	0.047806858	0.181616163	WDR46			
6	33279108	33289527	- 3115				
protein_coding	WD repeat domain 46 [Source:HGNC						
Symbol;Acc:HGNC:13923]	-	2801 4559	3832 4554	4547			
4974	49.17561167	64.52759802	56.98622719				
70.68645335	63.61001543	74.54075131					
ENSG00000254554	15.04050178	19.46597396	2.933395248				

75.34336665	7.310879019	45.1359139	12.479957		
42.59671986	-1.770070131	0.047824148	0.18163671		
AC080023.1	11	10302657	10303704	-	803
	antisense	novel transcript	-	13	21
	3	75	8	46	0.885365347
	0.173064569	4.515927225	0.434143236	2.67416575	
ENSG00000006282	652.5263851	745.2687172	854.5958157		
529.412723	513.5892511	679.982355	750.7969727		
574.3281097	0.387243741	0.0478405	0.181653683		
SPATA20 17	50543058	50555852	+	5337	
protein_coding	spermatogenesis	associated 20	[Source:HGNC		
Symbol;Acc:HGNC:26125]	-	564	804	874	527
	693	5.779318296	6.641907208	7.586067202	562
4.774354129	4.588785005	6.06152733			
ENSG00000013288	591.2074163	605.299095	773.4385472		
565.577539	524.5555696	374.8243284	656.6483528		
488.3191457	0.42755953	0.047859793	0.181681813		MAN2B2
	4	6575175	6623362	+	8898
	mannosidase alpha class 2B member 2	[Source:HGNC			
Symbol;Acc:HGNC:29623]	-	511	653	791	563
	382	3.140676547	3.235599338	4.118001855	574
3.059265788	2.811111609	2.004088968			
ENSG00000236536	0	0	24.10987733	0	0
	0	8.036625776	-5.424868665	0.047886284	1
	AC003986.3	7	19119933	19121916	+
	692	antisense	novel transcript	-	0
	0	0	24	0	0
	1.676896907	0	0		
ENSG00000242516	0	0	24.10987733	0	0
	0	8.036625776	-5.424868665	0.047886284	1
	LINC00960	3	75672391	75679303	+
	3181	lincRNA long intergenic non-protein coding RNA 960			
[Source:HGNC	Symbol;Acc:HGNC:48710]	-	0	0	0
	24	0	0	0	0.364794926
	0	0			
ENSG00000154736	52.06327541	79.71779811	49.86771922		
88.40288354	144.3898606	92.23425883	60.54959758		
108.3423343	-0.837906082	0.047909172	0.181824108		
ADAMTS5 21	26917912	26966513	-	9056	
protein_coding	ADAM metalloproteinase with thrombospondin type 1 motif				
5 [Source:HGNC	Symbol;Acc:HGNC:221]	-	45	86	51
	88	158	94	0.271750788	0.418693285
0.260877256	0.469837281	0.760289987	0.484548748		
ENSG00000064115	1347.860352	1269.923063	1387.495953		
1032.706412	1218.175217	988.0840281	1335.093123		
1079.655219	0.306032798	0.047944515	0.18191308		TM7SF3
	12	26973195	27014434	-	3888
protein_coding	transmembrane 7 superfamily member 3	[Source:HGNC			
Symbol;Acc:HGNC:23049]	-	1165	1370	1419	1028
	1007	16.38680863	15.53560852	16.90669021	1333

12.78403865	14.94040915	12.09063888				
ENSG00000166164	1574.624841	1518.345969	1585.989031			
1403.395776	1279.403828	1139.191218	1559.65328			
1273.996941	0.291852812	0.047967694	0.181955867	BRD7		
16	50313487	50368934	- 8492			
protein_coding	bromodomain containing 7 [Source:HGNC					
Symbol;Acc:HGNC:14310]	-	1361	1638	1622	1397	1400
1161	8.76481699	8.50428625	8.847963455			
7.954037554	7.184170784	6.382168558				
ENSG00000143434	121.480976	241.9342478	224.8936357			
258.1766031	310.7123583	315.9513973	196.1029531			
294.9467862	-0.585982367	0.048005617	0.182054543	SEMA6C		
1	151131685	151146664	- 5809			
protein_coding	semaphorin 6C [Source:HGNC Symbol;Acc:HGNC:10740]					
-	105	261	230	257	340	322
0.98851357	1.980948061	1.834124936	2.139109238			
2.550563488	2.58762019					
ENSG00000259899	0	0	0.977798416	19.08698622	0	
5.887293117	0.325932805	8.324759778	-4.513433136			
0.048050347	1	AC010333.2	16	12560756		
12611044	-	698	antisense	"novel		
transcript, antisense to a novel protein"			-	0	0	
1	19	0	6	0	0	0.066366212
1.316131837	0	0.401274778				
ENSG00000156239	315.8505375	406.0045997	438.0536904			
623.8430759	494.3981937	454.3027855	386.6362759			
524.1813517	-0.437649599	0.048052628	0.182187631	N6AMT1		
21	28872191	28885371	- 4865			
protein_coding	N-6 adenine-specific DNA methyltransferase 1					
[Source:HGNC Symbol;Acc:HGNC:16021]	-	273	438	448		
621	541	463	3.0688419	3.969403277		
4.265771862	6.171773396	4.845884049	4.4426713			
ENSG00000100557	5.784808379	8.342560268	17.60037149	0		
0	2.943646558	10.57591338	0.981215519			
3.440429553	0.04807583	1	CCDC198	14	57469301	
57493867	-	4107	protein_coding	coiled-coil		
domain containing 198 [Source:HGNC Symbol;Acc:HGNC:20189]					-	
5	9	18	0	0	3	0.066579421
0.096616603	0.203025345	0	0	0	0.034099074	
ENSG00000164574	1595.450151	1302.366353	2162.890097			
1633.444189	965.9498904	1159.796744	1686.9022			
1253.063608	0.429154119	0.048128728	0.182406597			
GALNT10	5	154190730	154420984	+	10496	
protein_coding	polypeptide N-acetylgalactosaminyltransferase 10					
[Source:HGNC Symbol;Acc:HGNC:19873]	-	1379	1405	2212		
1626	1057	1182	7.185138714	5.9018268		
9.762560907	7.490277982	4.388435939	5.257020739			
ENSG00000170855	499.8074439	538.5586128	508.4551764			
285.3002151	476.1209961	370.8994664	515.6070777			
377.4402258	0.449427889	0.048134246	0.182406597	TRIAP1		

12	120443961	120446412	-	1442	
protein_coding	TP53 regulated inhibitor of apoptosis 1 [Source:HGNC				
Symbol;Acc:HGNC:26937]	-	432 581	520 284	521	
378	16.38374573	17.76416629	16.70477149		
9.522572682	15.7445793	12.23693281			
ENSG00000172336	462.7846703	629.3998246	573.9676703		
777.5435438	657.9791117	729.043131	555.3840551		
721.5219289	-0.37615989	0.048149535	0.182419315	POP7	
7	100706053	100707495	+	988	
protein_coding	"POP7 homolog, ribonuclease P/MRP subunit [Source:HGNC				
Symbol;Acc:HGNC:19949]"	-	400 679	587 774	720	
743	22.1410269	30.30029018	27.52222953		
37.87784239	31.75661103	35.10572165			
ENSG00000185201	1029.695891	1491.464386	1568.38866		
944.3035287	1075.613076	1152.928235	1363.182979		
1057.614947	0.366788916	0.048179355	0.182487068	IFITM2	
11	307631 315272	+ 1543	protein_coding		
interferon induced transmembrane protein 2 [Source:HGNC					
Symbol;Acc:HGNC:5413]	-	890 1609	1604 940	1177	
1175	31.54414739	45.97524751	48.15494528		
29.45527922	33.24062145	35.54822959			
ENSG00000153187	17828.77942	19424.26116	21483.209		
17149.15483	14619.01646	17507.82851	19578.74986		
16425.33327	0.253419011	0.048270562	0.18278724	HNRNPU	
1	244840638	244864560	-	22512	
protein_coding	heterogeneous nuclear ribonucleoprotein U [Source:HGNC				
Symbol;Acc:HGNC:5048]	-	15410 20955	21971 17071	15997	
17843	37.43546839	41.04001804	45.21038442		
36.66452802	30.96585405	36.99983874			
ENSG00000207110	1.156961676	2.780853423	1.955596832	0	
26.50193645	19.62431039	1.964470644	15.37541561		
-2.957740409	0.048291287	1	RNU1-106P	8	
127999131	127999294	+	164 snRNA	"RNA,	
U1 small nuclear 106, pseudogene [Source:HGNC					
Symbol;Acc:HGNC:48448]"					
-	1 3	2 0	29 20		
0.333465466	0.806512986	0.56492215	0	7.705711544	
5.692882019					
ENSG00000232434	55.53416043	133.4809643	227.827031		
162.741672	285.1242818	290.4397938	138.9473852		
246.1019158	-0.822152263	0.048311515	0.18289701	AJM1	
9	136844415	136848801	+	4387	
protein_coding	apical junction component 1 homolog [Source:HGNC				
Symbol;Acc:HGNC:37284]	-	48 144	233 162	312	
296	0.598367939	1.447200872	2.460315159		
1.785453716	3.099171127	3.149706687			
ENSG00000149476	610.8757648	712.8254273	700.103666		
683.113191	864.511444	1131.341494	674.6016194		
892.9887097	-0.404203794	0.048401755	0.183193272	TKFC	
11	61333210	61353295	+	8136	
protein_coding	triokinase and FMN cyclase [Source:HGNC				

Symbol;Acc:HGNC:24552]	-	528	769	716	680	946
1153	3.54909558	4.167248106	4.076660433			
4.041096201	5.066858711	6.615526344				
ENSG00000225137	144.6202095	136.2618177	122.224802			
96.43950931	85.90282848	66.72265532	134.3689431			
83.02166437	0.694200992	0.048425611	0.183238197			
DYNC1I2P1	10	50264978	50266815	+		1838
processed_pseudogene		dynein cytoplasmic 1 intermediate				
chain 2 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:45012]						-
125	147	125	96	94	68	3.719282946
3.526190619	3.150409162	2.525381197	2.228645251			
1.727068016						
ENSG00000102904	85.615164	29.66243651	37.15633981			
80.36625776	106.0077458	108.9149227	50.81131344			
98.42964207	-0.961947371	0.048493691	0.183419051			
TSNAXIP1	16	67806765	67832148	+		3852
protein_coding		translin associated factor X interacting				
protein 1 [Source:HGNC Symbol;Acc:HGNC:18586]						-
38	80	116	111	1.050606671	0.366266887	
0.456982715	1.004164642	1.312291478	1.345187231			
ENSG00000272391	2381.027129	2654.788067	3186.645038			
3626.527382	2974.613901	3514.713991	2740.820078			
3371.951758	-0.298660661	0.048497403	0.183419051			
POM121C 7	75416787	75486271	-		8767	
protein_coding		POM121 transmembrane nucleoporin C [Source:HGNC				
Symbol;Acc:HGNC:34005]						-
3582	12.83775481	14.40309964	17.22010557	3259	3610	3255
19.90936515	16.17925739	19.07307036				
ENSG00000145337	1330.505927	1482.194874	1498.964972			
1199.466397	1089.320974	1237.31277	1437.221924			
1175.366714	0.290631657	0.04853593	0.183519356			PYURF
4	88520985	88523813	-		1361	
protein_coding		PIGY upstream reading frame [Source:HGNC				
Symbol;Acc:HGNC:44317]						-
1261	46.20983607	51.79934838	52.17788671	1533	1194	1192
42.41772948	38.1660072	43.2516816				
ENSG00000198612	2442.346097	2063.39324	1796.21569			
1475.725408	1888.948367	1676.897323	2100.651676			
1680.523699	0.321399079	0.048552144	0.183530328			COPS8
2	237085312	237100466	+		4743	
protein_coding		COP9 signalosome subunit 8 [Source:HGNC				
Symbol;Acc:HGNC:24335]						-
1709	24.34051828	20.69216788	17.94148918	1837	1469	2067
14.97510539	18.99091761	16.82034789				
ENSG00000129696	518.3188307	491.2841046	468.3654413			
715.2596941	630.5633154	563.2177082	492.6561256			
636.3469059	-0.369486106	0.048562843	0.183530328			TTI2
8	33473386	33513601	-		4222	
protein_coding		TEL02 interacting protein 2 [Source:HGNC				
Symbol;Acc:HGNC:26262]						-
		448	530	479	712	690

	574	5.803025751	5.534668306	5.255568975		
8.153854944		7.121794854	6.34657913			
ENSG00000252777	2.313923351	0	0	28.12819022	0	
	6.868508636	0.771307784	11.66556628	-3.991504468		
	0.0486159	1	RF00422 1	28689665		
28689794	+	130	scaRNA	-	2	0
	0	28	7	0.841359022	0	0
	10.41395977	0	2.513626368			
ENSG00000226469	9.255693406	10.19646255	26.40055724	0		
	3.65543951	3.924862078	15.28423773	2.526767196		
	2.591008989	0.048662954	1	ADAM1B 12		
111927018	111929017	+	2000	unitary_pseudogene		
	ADAM metalloproteinase domain 1B (pseudogene) [Source:HGNC					
Symbol;Acc:HGNC:44366]	-	8	11	27	0	4
	4	0.218753346	0.242491571	0.62536882	0	
	0.087154255	0.093363265				
ENSG00000251669	86.77212568	184.463277	86.04626062			
187.8561275	229.3788292	170.7315004	119.0938878			
195.988819	-0.715821739	0.048671021	0.183893697			
FAM86EP 4	3941760	3955419	-	3476		
	transcribed_unprocessed_pseudogene "family with sequence					
	similarity 86 member E, pseudogene [Source:HGNC					
Symbol;Acc:HGNC:28017]"	-	75	199	88	187	251
	174	1.179984244	2.524104125	1.17274978		
2.601135973	3.146679795	2.336767567				
ENSG00000117448	1402.237551	1204.109532	1338.606032			
1660.567801	1410.085791	1808.380202	1314.984372			
1626.344598	-0.306763114	0.048709392	0.183974144	AKR1A1		
	1	45550543	45570049	+	3121	
	protein_coding aldo-keto reductase family 1 member A1 [Source:HGNC					
Symbol;Acc:HGNC:380]	-	1212	1299	1369	1653	1543
	1843	21.23750841	18.35056077	20.31945874		
25.60827361	21.544219	27.56624441				
ENSG00000113391	1303.895809	978.8604047	907.3969302			
697.1772861	909.290578	850.7138554	1063.384381			
819.0605732	0.375605575	0.048716382	0.183974144			
FAM172A 5	93618069	94111699	-	5071		
	protein_coding family with sequence similarity 172 member A					
[Source:HGNC Symbol;Acc:HGNC:25365]	-		1127	1056	928	
	694	995	867	12.15416193	9.181301847	
8.47728573	6.61709053	8.550432206	7.981261176			
ENSG00000188770	0	0	0	13.05951689	6.397019142	
	0	0	6.485512009	-5.116569584	0.048727534	
	1	OPTC 1	203494143	203508864	+	
	1359	protein_coding	opticin [Source:HGNC			
Symbol;Acc:HGNC:8158]	-	0	0	0	13	7
	0	0	0	0.462514244	0.224459081	
	0					
ENSG00000176986	1507.521063	1828.874601	1801.104683			
2476.285317	1881.637488	2017.379108	1712.500116			

2125.100638	-0.310892992	0.048732551	0.183989753	SEC24C
10	73744384	73772161	+ 5341	
protein_coding	"SEC24 homolog C, COPII coat complex component			
[Source:HGNC Symbol;Acc:HGNC:10705]"	-	1303	1973	1842
2465	2059	2056	13.34186526	16.28690133
15.97605341	22.31493171	16.79934567	17.96993756	
ENSG00000279345	13.88354011	23.17377852	11.73358099	0
0	6.868508636	16.26363321	2.289502879	
2.835295801	0.048746491	1	Z98885.3	22
49805452	49807208	+	1757	antisense
transcript, antisense to BRD1"	-	12	25	12
0	7	0.373511689	0.627338881	0.316382126
0	0	0.1859826		
ENSG00000130684	42.807582	90.8412118	63.55689705	
104.4761351	118.8017841	122.6519399	65.73523029	
115.309953	-0.80615061	0.048788116	0.184154058	ZNF337
20	25674215	25696841	-	3823
protein_coding	zinc finger protein 337 [Source:HGNC			
Symbol;Acc:HGNC:15809]	zf-C2H2	37	98	65
125	0.529288111	1.130201126	0.787610531	130
1.315316469	1.481827506	1.526341635		
ENSG00000184349	569.2251445	401.369844	459.5652556	
291.3276844	380.165709	377.767975	476.7200813	
349.7537895	0.445260035	0.048812309	0.184184251	EFNA5
5	107376889	107670895	-	5703
protein_coding	ephrin A5 [Source:HGNC Symbol;Acc:HGNC:3225]			-
492	433	470	290	416
3.347483791	3.817657315	2.458645094	3.17869279	
3.151399006				
ENSG00000139613	1244.890763	1746.375949	1742.436778	
1214.53507	1209.950478	1334.453106	1577.901163	
1252.979552	0.333312635	0.048820212	0.184184251	
SMARCC2	12	56162983	56189567	-
protein_coding	"SWI/SNF related, matrix associated, actin dependent			
regulator of chromatin subfamily c member 2 [Source:HGNC				
Symbol;Acc:HGNC:11105]"	MYB	1076	1884	1782
1360	6.878392753	9.70945476	9.649174082	1209
6.832938368	6.744139873	7.421042697		1324
ENSG00000177105	961.4351525	1051.162594	1135.223961	
1342.116505	1128.616949	1464.954771	1049.273902	
1311.896075	-0.321715169	0.048839184	0.184210364	RHOG
11	3826978	3840983	-	1782
homolog family member G [Source:HGNC Symbol;Acc:HGNC:672]				protein_coding
831	1134	1161	1336	1235
28.056876	30.1805379	36.24932925	30.20075886	25.50281009
39.11093008				
ENSG00000177465	0	0	0	16.07325155
0	0	6.576230354	-5.135900328	3.65543951
1	ACOT4	14	73591706	73596496
2362	protein_coding	acyl-CoA thioesterase 4 [Source:HGNC		

Symbol;Acc:HGNC:19748]	-	0	0	0	16	4
0	0	0	0	0.327522625	0.073796998	
0						
ENSG00000152942	894.3313753	738.7800593	718.6818359			
597.7240421	625.994016	626.0155014	783.9310902			
616.5778532	0.345602347	0.04892374	0.184483773			RAD17
5	69369293	69414801	+	4159		
protein_coding	RAD17 checkpoint clamp loader component					[Source:HGNC
Symbol;Acc:HGNC:9807]	-	773	797	735	595	685
638	10.16448282	8.448962042	8.186549168			
6.917182943	7.177285943	7.161067942				
ENSG00000121101	3.470885027	5.561706845	6.844588913			0
0	0	5.292393595	0	4.898451791		
0.048926738	1	TEX14	17	58556678	58692055	
-	5325	protein_coding	"testis expressed 14,			
intercellular bridge forming factor						[Source:HGNC
Symbol;Acc:HGNC:11737]"	-	3	6	7	0	0
0	0.03081033	0.049678171	0.060894895			0
0	0					
ENSG00000155275	137.6784394	226.1760784	214.1378531			
221.0072088	398.4429066	260.0221127	192.6641236			
293.1574094	-0.60416273	0.048937447	0.184489952			TRMT44
4	8436140	8493531	+	7724	protein_coding	tRNA
methyltransferase 44 homolog						[Source:HGNC Symbol;Acc:HGNC:26653]
-	119	244	219	220	436	265
0.842557229	1.392776785	1.313422058	1.377151223			
2.459817132	1.601583717					
ENSG00000197479	3.470885027	12.97731597	6.844588913			
40.18312888	16.44947779	23.54917247	7.764263304			
26.72725971	-1.769273856	0.049003549	0.184693603			
PCDHB11	5	141199582	141203779	+	4198	
protein_coding	protocadherin beta 11					[Source:HGNC
Symbol;Acc:HGNC:8682]	-	3	14	7	40	18
24	0.039081708	0.147034605	0.077242809			
0.460700595	0.186848093	0.266879271				
ENSG00000175048	153.8759029	194.6597396	165.2479323			
273.2452764	195.5660138	283.5712851	171.2611916			
250.7941918	-0.548481553	0.04907267	0.184877018			
ZDHHC14	6	157381133	157678146	+	11121	
protein_coding	zinc finger DHHC-type containing 14					[Source:HGNC
Symbol;Acc:HGNC:20341]	-	133	210	169	272	214
289	0.654037294	0.832548249	0.703955684			
1.182568427	0.838549164	1.213109595				
ENSG00000171791	284.6125722	263.254124	356.8964219			
222.0117871	203.7907527	219.7922764	301.587706			
215.198272	0.48725397	0.049076401	0.184877018			BCL2
18	63123346	63320128	-	11765		
protein_coding	"BCL2, apoptosis regulator					[Source:HGNC
Symbol;Acc:HGNC:990]"	-	246	284	365	221	223
224	1.143504527	1.064290943	1.437154267			

0.908241953	0.825983799	0.888796064				
ENSG0000062582	55.53416043	87.13340724	74.31267963			
90.41203998	106.0077458	185.4497332	72.3267491			
127.2898396	-0.812654491	0.049112814	0.18496861	MRPS24		
7	43866558	43869893	-	2613		
protein_coding	mitochondrial ribosomal protein S24 [Source:HGNC					
Symbol;Acc:HGNC:14510]	-	48	94	76	90	116
189	1.004607787	1.586070187	1.347338247			
1.665345379	1.934537609	3.376513032				
ENSG00000163071	0	0	0	11.05036044	3.65543951	
	1.962431039	0	5.556076997	-4.892756617		
0.049127838	1	SPATA18 4	52051331	52097292		
+	4941	protein_coding	spermatogenesis associated	18		
[Source:HGNC	Symbol;Acc:HGNC:29579]	-	0	0	0	
11	4	2	0	0	0	0.107641328
	0.035277982	0.018895621				
ENSG00000102081	2415.735979	1939.181787	2033.820706			
1847.41935	1810.356417	1542.470797	2129.57949			
1733.415521	0.296531156	0.049173988	0.185111849	FMR1		
X	147911951	147951125	+	8919		
protein_coding	fragile X mental retardation 1 [Source:HGNC					
Symbol;Acc:HGNC:3775]	-	2088	2092	2080	1839	1981
1572	12.80292034	10.34140327	10.80313061			
9.969348588	9.678920203	8.227775129				
ENSG00000196943	779.7921694	889.8730952	828.1952585			
1190.425193	965.9498904	978.2718729	832.6201744			
1044.882319	-0.326989238	0.049184981	0.185111849	NOP9		
14	24299862	24309124	+	6033		
protein_coding	NOP9 nucleolar protein [Source:HGNC					
Symbol;Acc:HGNC:19826]	-	674	960	847	1185	1057
997	6.109719668	7.015713827	6.503580808			
9.496995703	7.634845618	7.714501518				
ENSG00000119537	3139.993988	2675.180992	2293.915084			
3383.419452	3691.080045	2938.740481	2703.030022			
3337.746659	-0.304656158	0.049187174	0.185111849	KDSR		
18	63327726	63367510	-	9313		
protein_coding	3-ketodihydrosphingosine reductase [Source:HGNC					
Symbol;Acc:HGNC:4021]	-	2714	2886	2346	3368	4039
2995	15.93730754	13.66283054	11.66919402			
17.48572711	18.89917507	15.01250827				
ENSG00000143702	4991.132669	4777.50618	3877.948518			
5742.169117	6106.411701	4809.918476	4548.862456			
5552.833098	-0.287853008	0.049252547	0.185312255	CEP170		
1	243124428	243255348	-	10939		
protein_coding	centrosomal protein 170 [Source:HGNC					
Symbol;Acc:HGNC:28920]	-	4314	5154	3966	5716	6682
4902	21.5673721	20.77307312	16.79490468			
25.26479707	26.61873709	20.91903856				
ENSG00000160993	208.2531016	268.8158308	302.1397106			
334.5245479	381.9934288	362.0685267	259.7362144			

359.5288345	-0.467602783	0.04931636	0.185501942	ALKBH4
7	102456238	102464876	- 2312	
protein_coding	"alkB homolog 4, lysine demethylase [Source:HGNC			
Symbol;Acc:HGNC:21900]"	-	180 290	309 333	418
369	4.257742456	5.530241872	6.191175364	
6.963981685	7.878563682	7.450485473		
ENSG00000169621	114.5392059	129.7731597	118.3136084	
69.31589732	89.55826799	59.85414669	120.8753247	
72.90943733	0.728802778	0.049327232	0.185501942	APLF
2	68467561	68655862	+ 7135	
protein_coding	aprataxin and PNKP like factor [Source:HGNC			
Symbol;Acc:HGNC:28724]"	-	99 140	121 69	98
61	0.758815039	0.865103395	0.785586205	
0.467580434	0.598536578	0.399100152		
ENSG00000185504	1298.111	1697.247539	1762.970544	
1838.378146	1983.989794	2081.158117	1586.109694	
1967.842019	-0.310546589	0.049347677	0.185533187	
FAAP100 17	81539885	81553961	- 5354	
protein_coding	FA core complex associated protein 100 [Source:HGNC			
Symbol;Acc:HGNC:26171]"	-	1122 1831	1803 1830	2171
2121	11.46064876	15.07800682	15.59982821	
16.52623558	17.6701426	18.49304121		
ENSG00000128915	1441.574248	1001.107232	991.487594	
830.7861896	996.1072664	822.2586053	1144.723025	
883.0506871	0.37336555	0.04936009	0.185534225	ICE2
15	60419609	60479160	- 16010	
protein_coding	interactor of little elongation complex ELL subunit 2			
[Source:HGNC Symbol;Acc:HGNC:29885]"	-	1246 1080	1014	
827	1090 838	4.256194078	2.97417406	
2.93392548	2.497556917	2.966837528	2.443423365	
ENSG00000140682	1119.938902	1050.235643	987.5764003	
750.4199319	869.9946033	910.5680021	1052.583648	
843.6608457	0.318780604	0.049385294	0.18558333	
TGFB1I1 16	31471585	31477960	+ 5403	
protein_coding	transforming growth factor beta 1 induced transcript 1			
[Source:HGNC Symbol;Acc:HGNC:11767]"	-	968 1133	1010	
747	952 928	9.797947375	9.245468011	
8.65942115	6.684775872	7.678220478	8.01787063	
ENSG00000041982	7973.779869	5628.447327	7455.712923	
9405.865893	6540.495143	11128.94642	7019.313373	
9025.102486	-0.362667212	0.049399944	0.18559276	TNC
9	115019578	115118257	- 9636	
protein_coding	tenascin C [Source:HGNC Symbol;Acc:HGNC:5318]"			-
6892	6072 7625	9363 7157	11342 39.114987	
27.78234689	36.65603719	46.98069623	32.36628274	
54.94635496				
ENSG00000105520	931.354149	1346.860008	1234.9594	
1609.334312	1325.096822	1523.827702	1171.057852	
1486.086279	-0.342746554	0.049554334	0.186127052	PLPPR2
19	11355386	11365698	+ 3273	

protein_coding	phospholipid phosphatase related 2 [Source:HGNC					
Symbol;Acc:HGNC:29566]	-	805	1453	1263	1602	1450
1553	13.45069075	19.57282743		17.87556596		
23.66561107	19.30547958	22.14988554				
ENSG00000242791	2.313923351	0.926951141		5.866790497		
26.11903377	18.27719755	4.906077597		3.03588833		
16.43410297	-2.435684652	0.049567365		1	AC117395.1	
3	149976755	149979355		+	721	
lincRNA novel transcript		-	2	1	6	26
20	5	0.151701349		0.061150314		0.385494727
1.743569646		1.208796875		0.323728381		
ENSG00000158292	119.1670526	217.8335181		220.9824421		
252.1491337	319.8509571	264.9281903		185.9943376		
278.9760937	-0.582308428	0.049569236		0.186137291		GPR153
1	6247346	6260975	-	4082	protein_coding	G
protein-coupled	receptor 153 [Source:HGNC					
Symbol;Acc:HGNC:23618]	-	103	235	226	251	350
1.379935976	2.538217417	2.564707812		2.973048114		
3.736402394	3.087712099					
ENSG00000260966	219.8227184	153.8738894		123.2026004		
380.7351461	211.1016317	193.2994573		165.6330694		
261.7120784	-0.661617035	0.049645195		0.186376742		
AP001486.2	11	103050687		103055799	-	5113
	sense_overlapping			"novel transcript, overlapping to		
DCUN1D5"	-	190	166	126	379	231
2.032228422		1.431417272		1.141555966		197
1.968769102		1.798607787				3.583972212
ENSG00000110048	2244.505651	2195.020302		2138.445136		
2660.123132	2727.871734	2445.189075		2192.65703		
2611.061314	-0.252072934	0.049684366		0.186478001		OSBP
11	59574398	59616144		-	5492	
protein_coding	oxysterol binding protein [Source:HGNC					
Symbol;Acc:HGNC:8503]	-	1940	2368	2187	2648	2985
2492	19.31816691	19.01013178		18.44678603		
23.31249031	23.68494631	21.18183327				
ENSG00000258458	0	0		8.800185745		19.08698622
15.53561792	21.58674143	2.933395248				
18.73644852	-2.661448844	0.049734626		1	AL160314.2	
14	22701476	22766562		-	2513	
processed_transcript	"novel transcript, antisense to OXA1L"					-
0	0	9	19	17	22	0
0.165902327		0.365563081		0.29479155		0.408673266
ENSG00000204574	5377.557869	6272.67837		5869.723892		
7453.970407	6527.701104	6781.180455		5839.98671		
6920.950656	-0.244838928	0.049773616		0.186767126		ABCF1
6	30571376	30597179		+	4523	
protein_coding	ATP binding cassette subfamily F member 1 [Source:HGNC					
Symbol;Acc:HGNC:70]	-	4648	6767	6003	7420	7143
6911	56.19973198	65.96347807		61.48146556		
79.31923811	68.81968178	71.32804833				

ENSG00000260572	10.41265508	10.19646255	12.71137941		
53.24264577	21.93263706	21.58674143	11.10683235		
32.25400808	-1.536081258	0.049821443	0.186900712		
AC069224.1	3	160753428	160755142	-	1715
	antisense	"novel transcript, antisense to PPM1L"			-
	9	11	13	53	24
	0.282789004	0.351141115	1.494214552	0.286994185	0.609825689
	0.598831438				
ENSG00000248713	3.470885027	13.90426711	19.55596832	0	
	0	3.924862078	12.31037349	1.308287359	
3.244584241	0.049824219	1	C4orf54	4	99636529
	99654648	-	10086	protein_coding	chromosome 4
	open reading frame 54 [Source:HGNC Symbol;Acc:HGNC:27741]				
	3	15	20	0	0
	0.065570161	0.09185726	0	0	0.016266608
					0.018513437
ENSG00000183648	201.3113316	164.9973031	263.0277739		
62.28384977	158.0977588	156.9944831	209.7788029		
125.7920306	0.736665064	0.049884275	0.187090507		NDUFB1
	14	92116122	92121917	-	2263
	protein_coding	NADH:ubiquinone oxidoreductase subunit B1 [Source:HGNC			
	Symbol;Acc:HGNC:7695]	-	174	178	269
	160	4.204936164	3.467922683	5.50643075	62
	1.324671986	3.331349108	3.300513128		173
ENSG00000076356	517.161869	571.9288539	706.9482549		
580.6462123	328.075696	385.6176992	598.6796593		
431.4465358	0.473663602	0.049916008	0.187159551		PLXNA2
	1	208022242	208244320	-	13781
	protein_coding	plexin A2 [Source:HGNC Symbol;Acc:HGNC:9100]			-
	447	617	723	578	359
	1.973960188	2.430300747	2.027908344	393	1.773868833
	1.331244583				1.13519982
ENSG00000182963	2389.12586	2135.695429	3107.443367		
1977.009941	2010.49173	2150.824419	2544.088218		
2046.108697	0.314298306	0.04992717	0.187159551		GJC1
	17	44798448	44830816	-	8660
	protein_coding	gap junction protein gamma 1 [Source:HGNC			
	Symbol;Acc:HGNC:4280]	-	2065	2304	3178
	2192	13.04057907	11.73001428	16.99959037	1968
	10.98774112	11.07040187	11.81595133		2200
ENSG00000233589	12.72657843	9.269511408	8.800185745	0	
	0	2.943646558	10.2654252	0.981215519	
3.394390195	0.049960652	1	AL138789.1	1	
68479129	68483539	+	960	antisense	novel
	transcript	-	11	10	9
	0.626637188	0.459264339	0.434283903	0	0
	0.145880102				3
ENSG00000108349	3216.353458	3792.157117	3887.726503		
4756.677881	4156.234722	4171.147173	3632.079026		
4361.353259	-0.263705579	0.049972757	0.187284514		CASC3
	17	40140318	40172183	+	6380

protein_coding "CASC3, exon junction complex subunit [Source:HGNC
Symbol;Acc:HGNC:17040]" - 2780 4091 3976 4735 4548
4251 23.82971399 28.27110338 28.86876151
35.88397299 31.06407135 31.10401567