

Additional Table 10 The differentially expressed mRNAs analyzed in this study were selected from the results of mRNA sequencing analysis

EnsemblID	GeneName	Description	start	end	strand	GeneID	chromosom	PLP	PLP_NC	log2FC	Pvalue	padj
ENSG00000156509	FBXO43	F-box protein 43	100133360	100145800	-	286151	8	32	9	1.792929977	0.00127928	0.14621903
ENSG00000281021	AL078581.3	NA	149576089	149590864	-	NA	6	9	1	2.998267012	0.02463495	0.74193929
ENSG00000145248	SLC10A4	solute carrier family 10 member 4	48483343	48489196	+	201780	4	0	8	-6.033772917	0.00894141	0.44242407
ENSG00000258839	MC1R	melanocortin 1 receptor	89912119	89920977	+	4157	16	5	18	-1.845069119	0.01534811	0.5958645
ENSG00000169495	HTRA4	HtrA serine peptidase 4	38974164	38988662	+	203100	8	7	0	5.821602045	0.01729787	0.5958645
ENSG00000433555	ZIC2	Zic family member 2	99981772	99986773	+	7546	13	23	5	2.151100271	0.00182283	0.18408612
ENSG00000255326	AP001922.5	NA	75583196	75594665	+	105369391	11	10	2	2.230135398	0.04430615	0.96117306
ENSG00000211448	DIO2	iodothyronine deiodinase 2	80197527	80387757	-	1734	14	18	38	-1.0957119	0.02339332	0.72981751
ENSG00000235806	AF241728.1	NA	38770331	38799658	+	NA	X	29	8	1.818972394	0.00188854	0.18640307
ENSG00000187955	COL14A1	collagen type XIV alpha 1 chain	120059780	120372036	+	7373	8	8	21	-1.401338831	0.03484493	0.84532906
ENSG00000270133	AC025766.1	NA	94611906	94618122	-	NA	5	2	14	-2.755008525	0.00572059	0.35537281
ENSG00000249252	AC098829.1	NA	15004942	15427914	-	101929095	4	22	2	3.357813705	8.47E-05	0.02652295
ENSG00000198590	C3orf35	NA	37386269	37435497	+	339883	3	6	18	-1.58795721	0.0310526	0.8324078
ENSG00000163632	C3orf49	chromosome 3 open reading frame 49	63819362	63848636	+	132200	3	0	10	-6.351290168	0.00242129	0.21443156
ENSG00000125730	C3	complement C3	6677704	6730562	-	718	19	2904	1319	1.115450921	1.39E-07	0.00022456
ENSG00000039537	C6	complement C6	41142234	41261438	-	729	5	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000112936	C7	complement C7	40909252	40982939	+	730	5	19	125	-2.732824433	2.95E-13	2.28E-09
ENSG00000201457	SNORA55	NA	39567374	39567508	-	677834	1	13	0	6.702865037	0.00035249	0.06443635
ENSG00000207523	SNORA66	NA	92840719	92840851	+	26782	1	8	1	2.830829713	0.04333145	0.95821355
ENSG00000264176	MAGOH2P	NA	10716002	10716511	-	NA	17	11	1	3.284147477	0.00788025	0.42560136
ENSG00000243296	AC078828.1	NA	99500347	99505508	+	NA	3	9	1	2.998267012	0.02463495	0.74193929
ENSG00000125246	CLYBL	citrate lyase beta like	99606669	99897134	+	171425	13	21	44	-1.085616936	0.01657789	0.5958645
ENSG00000225963	AC009950.1	NA	230121370	230174223	+	NA	2	17	2	2.988259266	0.00118753	0.14474367
ENSG00000278434	AC023830.3	NA	4532216	4533670	-	NA	16	6	0	5.603454913	0.03361661	0.8324078
ENSG00000047597	XK	X-linked Kx blood group	37685759	37732130	+	7504	X	12	1	3.408316198	0.00444385	0.30691904
ENSG00000272263	AC034198.2	NA	12832219	12832728	-	NA	3	10	2	2.230135398	0.04430615	0.96117306
ENSG00000182584	ACTL10	actin like 10	33666498	33668525	+	170487	20	14	37	-1.417072169	0.005121	0.33119861
ENSG00000250461	AC122718.1	NA	61375112	61375855	+	NA	5	91	44	1.023226197	0.00229438	0.21443156
ENSG00000124731	TREM1	triggering receptor expressed on myeloid cells 1	41267926	41286719	-	54210	6	7	0	5.821602045	0.01729787	0.5958645
ENSG00000224132	AC112715.1	NA	237257091	237257676	+	NA	2	6	0	5.603454913	0.03361661	0.8324078
ENSG00000268030	AC005253.1	NA	18557775	18561560	-	NA	19	39	11	1.791378959	0.00043	0.07427378
ENSG00000279923	AC022417.1	NA	31558573	31559875	+	NA	5	13	1	3.522639813	0.00250381	0.21723364
ENSG00000188211	NCR3LG1	natural killer cell cytotoxicity receptor 3 ligand 1	17351726	17377341	+	374383	11	274	128	1.074225478	2.91E-05	0.01270536
ENSG00000265394	AC104984.2	NA	30090366	30117497	-	NA	17	0	8	-6.033772917	0.00894141	0.44242407
ENSG00000171462	DLK2	delta like non-canonical Notch ligand 2	43450352	43456632	-	65989	6	34	80	-1.254436092	0.00049319	0.08105351
ENSG00000253406	AC012613.2	NA	149216523	149276805	-	NA	5	13	2	2.604498362	0.00961124	0.45874658
ENSG00000003989	SLC7A2	solute carrier family 7 member 2	17497088	17570573	+	6542	8	2276	1096	1.031096469	1.25E-06	0.001307
ENSG00000065618	COL17A1	collagen type XVII alpha 1 chain	104031286	104086002	-	1308	10	23	7	1.675683267	0.00903825	0.44449827
ENSG00000248858	FLJ46284	NA	92699742	92879502	-	441369	8	0	9	-6.201249115	0.00464266	0.30691904
ENSG00000173334	TRIB1	tribbles pseudokinase 1	125430321	125438405	+	10221	8	247	106	1.196422895	6.48E-06	0.00426639
ENSG00000244480	AC005154.3	NA	30523143	30524535	-	NA	7	8	0	6.011054937	0.00894141	0.44242407
ENSG00000143882	ATP6V1C2	ATPase H+ transporting V1 subunit C2	10721649	10785110	+	245973	2	21	7	1.545187146	0.01916925	0.63844355
ENSG00000279118	AC093535.2	NA	126496279	126498604	+	NA	5	45	104	-1.229344794	0.00020244	0.04606088
ENSG00000185669	SNAI3	snail family transcriptional repressor 3	88677682	88686493	-	333929	16	0	8	-6.033772917	0.00894141	0.44242407
ENSG00000250067	YJEFN3	YjeF N-terminal domain containing 3	19528861	19537581	+	374887	19	45	22	1.005273671	0.01879946	0.63022679
ENSG00000243055	GK-AS1	NA	30699998	30724174	-	NA	X	9	1	2.998267012	0.02463495	0.74193929
ENSG00000246985	SOCS2-AS1	NA	93542463	93571768	-	144481	12	12	28	-1.236771091	0.02851606	0.80657876
ENSG00000158856	DMTN	dematin actin binding protein	22048995	22082527	+	2039	8	16	2	2.90145966	0.00200946	0.19394578
ENSG00000251257	AC010457.1	NA	38460925	38468339	-	NA	5	22	7	1.611910175	0.01319757	0.55984925
ENSG00000172780	RAB43	RAB43, member RAS oncogene family	129087569	129122801	-	339122	3	14	37	-1.417072169	0.005121	0.33119861
ENSG00000188060	RAB42	RAB42, member RAS oncogene family	28592200	28595443	+	115273	1	8	20	-1.33137288	0.04895303	1
ENSG00000236453	AC003092.1	NA	94022833	94066661	+	NA	7	276	129	1.073496615	2.87E-05	0.01270536
ENSG00000123892	RAB38	RAB38, member RAS oncogene family	88113242	88175467	-	23682	11	37	4	3.147240528	9.44E-07	0.00106956
ENSG00000127585	FBXL16	F-box and leucine rich repeat protein 16	692498	705829	-	146330	16	47	17	1.437430498	0.001266	0.14621903
ENSG00000169885	CALML6	calmodulin like 6	1914827	1917296	+	163688	1	16	2	2.90145966	0.00200946	0.19394578
ENSG00000223573	TINCR	TINCR ubiquitin domain containing	5558167	5568034	-	257000	19	18	1	3.988273079	0.00014282	0.03734573
ENSG00000225399	AC121247.1	NA	49260085	49261316	+	NA	3	1	9	-3.041533225	0.02463495	0.74193929
ENSG00000278789	AL391988.1	NA	117267116	117268668	-	NA	10	13	29	-1.17285419	0.03350994	0.8324078
ENSG00000140511	HAPLN3	hyaluronan and proteoglycan link protein 3	88877288	88895626	-	145864	15	32	79	-1.323446968	0.00028091	0.05673573
ENSG00000213221	DNLZ	DNL-type zinc finger	136359480	136363789	-	728489	9	6	0	5.603454913	0.03361661	0.8324078
ENSG00000272791	AC073389.3	NA	73630556	73631490	+	NA	10	1	8	-2.874057027	0.04333145	0.95821355
ENSG00000272420	AL513477.2	NA	2363061	2363628	-	NA	1	0	16	-7.02272042	5.33E-05	0.0193511
ENSG00000269896	AL513477.1	NA	2350414	2352820	-	100129534	1	2	23	-3.466250758	5.00E-05	0.01913526
ENSG00000270048	AC068790.4	NA	123962555	123962817	-	NA	12	8	0	6.011054937	0.00894141	0.44242407
ENSG00000270130	AC068790.7	NA	123960717	123961244	-	NA	12	9	1	2.998267012	0.02463495	0.74193929
ENSG00000202314	SNORD6	NA	93731502	93731574	-	692075	11	10	2	2.230135398	0.04430615	0.96117306
ENSG00000272356	AL080317.3	NA	111309203	111313517	+	NA	6	2	18	-3.114761185	0.00070095	0.10003166
ENSG00000235016	SEMA3F-AS1	NA	50116022	50156085	-	100129060	3	2	11	-2.410535462	0.02678048	0.77212427
ENSG00000178623	GPR35	G protein-coupled receptor 35	240605431	240631259	+	2859	2	6	0	5.603454913	0.03361661	0.8324078
ENSG00000261526	AC012615.1	NA	1874871	1876169	-	NA	19	9	1	2.998267012	0.02463495	0.74193929
ENSG00000162073	PAQR4	progesterone and adipoQ receptor family member 4	2969245	2973489	+	124222	16	69	23	1.55676449	6.47E-05	0.02231598
ENSG00000137819	PAQR5	progesterone and adipoQ receptor family member 5	69298947	69407780	+	54852	15	23	9	1.318704357	0.03063511	0.8324078
ENSG00000260190	AL807752.5	NA	136937169	136937988	-	NA	9	18	1	3.988273079	0.00014282	0.03734573
ENSG00000223820	CFL1P1	NA	87817928	87845612	+	142913	10	0	9	-6.201249115	0.00464266	0.30691904
ENSG00000082293	COL19A1	collagen type XIX alpha 1 chain	69866571	70209976	+	1310	6	18	3	2.51352		

ENSG00000260448	LCMT1-AS1	NA	25085592	25111555	-	NA	16	49	24	1.002944653	0.01513057	0.5958645
ENSG00000256195	AP002518.1	NA	114360635	114380045	-	101928940	11	7	0	5.821602045	0.01729787	0.5958645
ENSG00000211714	TRBV7-3	T cell receptor beta variable 7-3	142384329	142384841	+	NA	7	6	0	5.603454913	0.03361661	0.8324078
ENSG00000111863	ADTRP	androgen dependent TFPI regulating protein	11712054	11807046	-	84830	6	93	37	1.303758882	0.00015061	0.03862803
ENSG00000169116	PARM1	prostate androgen-regulated mucin-like protein 1	74933095	75050115	+	25849	4	21	3	2.734480089	0.00055646	0.08847317
ENSG00000169067	ACTBL2	actin, beta like 2	57480016	57482809	-	345651	5	32	11	1.506992692	0.00474403	0.31072044
ENSG00000227214	HCG15	NA	28986203	28987484	+	NA	6	10	0	6.328502073	0.00242129	0.21443156
ENSG00000185885	IFITM1	interferon induced transmembrane protein 1	313506	315272	+	8519	11	93	192	-1.067854784	0.00010541	0.02940749
ENSG00000171004	HS6ST2	heparan sulfate 6-O-sulfotransferase 2	132626016	132961395	-	90161	X	23	2	3.421586797	5.00E-05	0.01913526
ENSG00000185352	HS6ST3	heparan sulfate 6-O-sulfotransferase 3	96090839	96839562	+	266722	13	20	8	1.285725268	0.04895303	1
ENSG00000204622	HLA-J	NA	30005971	30009956	+	3137	6	9	0	6.178492236	0.00464266	0.30691904
ENSG00000226763	SRRM5	serine/arginine repetitive matrix 5	43596617	43614497	+	100170229	19	12	3	1.93356416	0.04197539	0.95430001
ENSG00000125895	TMEM74B	transmembrane protein 74B	1180561	1185415	-	55321	20	32	4	2.938552002	9.87E-06	0.0055895
ENSG00000263345	AC006435.2	NA	2375061	2379306	-	NA	17	28	13	1.076623878	0.04444927	0.96117306
ENSG00000139211	AMIGO2	adhesion molecule with Ig like domain 2	47075707	47079951	-	347902	12	716	352	1.001056943	1.01E-05	0.00567852
ENSG00000138161	CUZD1	CUB and zona pellucida like domains 1	122832149	122850793	-	50624	10	17	34	-1.017671537	0.04382563	0.96117306
ENSG00000244357	RN7SL145P	NA	45742675	45742970	+	NA	3	8	0	6.011054937	0.00894141	0.44242407
ENSG00000134755	DSC2	desmocollin 2	31058840	31102415	+	1824	18	11	0	6.464372701	0.00126829	0.14621903
ENSG00000134762	DSC3	desmocollin 3	30990008	31042815	-	1825	18	24	58	-1.291618228	0.00178899	0.18307847
ENSG00000169248	CXCL11	C-X-C motif chemokine ligand 11	76033682	76041415	-	6373	4	15	3	2.252490968	0.0103193	0.47399509
ENSG00000224746	AC015987.1	NA	135926455	135932881	+	NA	7	8	1	2.830829713	0.04333145	0.95821355
ENSG00000272301	AP002360.4	NA	76389648	76390128	+	NA	11	6	0	5.603454913	0.03361661	0.8324078
ENSG00000233767	PSMA6P3	NA	46072085	46072248	-	NA	21	6	0	5.603454913	0.03361661	0.8324078
ENSG00000149968	MMP3	matrix metalloproteinase 3	102835801	102843803	-	4314	11	64	11	2.504160758	5.09E-08	0.00010303
ENSG00000118113	MMP8	matrix metalloproteinase 8	102711795	102727050	-	4317	11	11	1	3.284147477	0.00788025	0.42560136
ENSG00000176928	GCNT4	glucosaminyl (N-acetyl) transferase 4, core 2	75025346	75030899	-	NA	5	31	81	-1.405081571	0.00011731	0.03210755
ENSG00000124091	GCNT7	glucosaminyl (N-acetyl) transferase family member 7	56491492	56525925	-	140687	20	6	0	5.603454913	0.03361661	0.8324078
ENSG00000225166	AC012462.1	NA	215453707	215463871	+	102724849	2	0	8	-6.033772917	0.00894141	0.44242407
ENSG00000228192	AL512353.1	NA	42834681	42846422	-	NA	1	15	0	6.90746823	9.96E-05	0.02829695
ENSG00000229474	PATL2	PAT1 homolog 2	44665732	44711316	-	197135	15	23	8	1.486180555	0.01731168	0.5958645
ENSG00000233818	AP000695.2	NA	36445731	36532408	+	NA	21	23	9	1.318704357	0.03063511	0.8324078
ENSG00000279365	AP000695.3	NA	36485867	36487760	+	NA	21	0	12	-6.611376502	0.00066721	0.09763777
ENSG00000234773	AC012618.3	NA	12195015	12237767	+	NA	19	6	0	5.603454913	0.03361661	0.8324078
ENSG00000188693	CYP51A1-AS1	NA	92134604	92180725	+	613126	7	6	0	5.603454913	0.03361661	0.8324078
ENSG00000237310	GS1-124K5.4	NA	66493706	66495474	+	100289098	7	1	15	-3.770634598	0.00079462	0.10718826
ENSG00000253616	AC107959.3	NA	23071377	23074488	-	NA	8	22	8	1.422407463	0.02463569	0.74193929
ENSG00000214357	NEURL1B	neuronal E3 ubiquitin protein ligase 1B	172641266	172691540	+	54492	5	44	19	1.183171673	0.00749061	0.41981461
ENSG00000269906	AL606834.2	NA	50662511	50663178	-	NA	14	28	12	1.190965615	0.02851606	0.80657876
ENSG00000179044	EXOC3L1	exocyst complex component 3 like 1	67184366	67190204	-	283849	16	6	26	-2.115431616	0.00124544	0.14621903
ENSG00000205436	EXOC3L4	exocyst complex component 3 like 4	103100144	103110559	+	91828	14	6	0	5.603454913	0.03361661	0.8324078
ENSG00000236098	AC097059.2	NA	94318479	94324569	-	NA	1	8	0	6.011054937	0.00894141	0.44242407
ENSG00000156875	MFS14A	major facilitator superfamily domain containing 14A	100038097	100083377	+	64645	1	3	16	-2.3898932	0.00639309	0.38046285
ENSG00000241316	SUCLG2-AS1	NA	67654697	67947713	+	101927111	3	7	24	-1.782377813	0.00616054	0.37408912
ENSG00000167912	AC090152.1	NA	59119040	59121346	+	NA	8	27	5	2.381260848	0.00031333	0.06121336
ENSG00000129749	CHRNA10	cholinergic receptor nicotinic alpha 10 subunit	3665587	3671384	-	57053	11	24	2	3.482659789	2.95E-05	0.01276152
ENSG00000279288	AC073346.2	NA	113075124	113077181	-	NA	7	2	11	-2.410535462	0.02678048	0.77212427
ENSG00000242950	ERVW-1	endogenous retrovirus group W member 1, envelope	92468380	92477986	-	30816	7	14	2	2.710424029	0.00572059	0.35537281
ENSG00000126500	FLRT1	fibronectin leucine rich transmembrane protein 1	64103188	64119173	+	23769	11	3	15	-2.297523269	0.0103193	0.47399509
ENSG00000263982	AC009716.1	NA	76372717	76378275	+	NA	18	20	7	1.47522798	0.0276789	0.78920399
ENSG00000100867	DHRS2	dehydrogenase/reductase 2	23630115	23645639	+	10202	14	25	6	2.013561752	0.00188767	0.18640307
ENSG00000273958	AC009560.1	NA	60593027	60593460	+	NA	15	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000259287	AC010809.1	NA	33858602	33864825	-	NA	15	17	5	1.717772741	0.02315658	0.72522737
ENSG00000261101	AC234775.3	NA	101627868	101628523	+	NA	X	6	18	-1.58795721	0.0310526	0.8324078
ENSG00000133107	TRPC4	transient receptor potential cation channel subfamily C member 4	37636636	37870425	-	7223	13	66	21	1.623261607	4.93E-05	0.01913526
ENSG00000284070	AP000356.2	NA	24645171	24651657	-	NA	22	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000258303	AC012464.2	NA	93836167	93838038	+	NA	12	6	0	5.603454913	0.03361661	0.8324078
ENSG00000273010	AL360270.3	NA	110963302	110964649	+	NA	1	6	0	5.603454913	0.03361661	0.8324078
ENSG00000232811	AL360270.1	NA	110943467	110952848	+	NA	1	26	4	2.640296894	0.00016562	0.04097549
ENSG00000506628	PTGER3	prostaglandin E receptor 3	70852353	71047808	-	5733	1	8	0	6.011054937	0.00894141	0.44242407
ENSG00000243176	AC092944.1	NA	157175223	157381265	+	NA	3	5	16	-1.676377416	0.03470407	0.84532906
ENSG00000123444	KBTBD4	kelch repeat and BTB domain containing 4	47572197	47579015	-	55709	11	34	84	-1.324719096	0.00020792	0.04674538
ENSG00000163376	KBTBD8	kelch repeat and BTB domain containing 8	66998307	67011210	+	84541	3	267	111	1.242277019	2.12E-06	0.00196704
ENSG00000271553	AC018638.7	NA	128667043	128668156	+	NA	7	3	14	-2.198832243	0.01657597	0.5958645
ENSG00000111199	TRPV4	transient receptor potential cation channel subfamily V member 4	109783085	109833401	-	59341	12	12	41	-1.784949881	0.0004292	0.07427378
ENSG00000261105	LMO7-AS1	NA	75604700	75635994	-	101927155	13	35	75	-1.119807552	0.00199822	0.19394578
ENSG00000273186	AL359091.4	NA	128431598	128432006	+	NA	9	20	4	2.263871095	0.00268218	0.22748379
ENSG00000174529	TMEM81	transmembrane protein 81	205083129	205084460	-	388730	1	31	13	1.222839677	0.01875381	0.62906886
ENSG00000148057	IDNK	IDNK, gluconokinase	83623049	83644130	+	414328	9	46	15	1.585667436	0.00056074	0.08849285
ENSG00000186976	EFCAB6	EF-hand calcium binding domain 6	43528744	43812337	-	64800	22	34	16	1.058588633	0.02990678	0.8324078
ENSG00000034239	EFCAB1	EF-hand calcium binding domain 1	48710789	48735311	-	79645	8	3	16	-2.3898932	0.00639309	0.38046285
ENSG00000165071	TMEM71	transmembrane protein 71	132685007	132760712	-	137835	8	20	7	1.47522798	0.0276789	0.78920399
ENSG00000277369	AC010654.1	NA	11797468	11798275	+	NA	16	1	9	-3.041533225	0.02463495	0.74193929
ENSG00000121900	TMEM54	transmembrane protein 54	32894594	32901438	-	113452	1	41	86	-1.089437531	0.00161991	0.17090462
ENSG00000265982	AC103810.3	NA	64778842	64778937	-	NA	17	4	20	-2.309174503	0.00268218	0.22748379
ENSG00000196932	TMEM26	transmembrane protein 26	61406643	61453450	-	219623	10	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000240602	AAADACP1	NA	151770428	151784894	+	201651	3	33	8	2.00462882	0.00040416	0.07164054
ENSG00000132329	RAMP1	receptor activity modifying protein 1	237858893	237912114	+	10267	2	0	27	-7.773080664	7.04E-08	0.00012092
ENSG00000274425	AC114271.1	NA	10333436	10336248	+	NA	19	1	8	-2.874057027	0.04333145	0.95821355
ENSG00000272892	AL133551.1	NA	67849525	67850746	+	NA	10	0	8	-6.033772917	0.00894141	0.44242407
ENSG00000227959	AL451042.2	NA	16155211	16157329	+	NA	1	0	12	-6.611376502	0.00066721	0.09763777
ENSG00000174500	GCSAM	germinal center associated signaling and motility sulfiredoxin 1	112120841	112133305	-	257144	3	33	9	1.837152622	0.00088348	0.11613368
ENSG00000271303	SRXN1	sulfiredoxin 1	646615	653370	-	140809	20	3	14	-2.198832243	0.01657597	0.5958645
ENSG00000140749	IGSF6	immunoglobulin superfamily member 6	21639537	21652660	-	10261	16	24	9	1.379777349	0.02192	

ENSG0000064692	SNCAIP	synuclein alpha interacting protein	122311354	122464219	+	9627	5	29	11	1.365558911	0.01266414	0.54624477
ENSG00000256674	AC020549.1	NA	114583253	114584692	+	NA	11	7	0	5.821602045	0.01729787	0.5958645
ENSG00000253667	AC100821.1	NA	53971231	53974210	+	NA	8	6	0	5.603454913	0.03361661	0.8324078
ENSG00000234477	AC004231.1	NA	40921430	40975926	+	NA	17	6	0	5.603454913	0.03361661	0.8324078
ENSG00000112299	VNN1	vanin 1	132681590	132714049	-	8876	6	73	28	1.355509676	0.0003331	0.06443635
ENSG00000232818	RPS2P32	NA	23490473	23491364	+	256355	7	12	2	2.490174747	0.01608407	0.5958645
ENSG00000232499	AL391058.1	NA	11344970	113450728	+	NA	1	12	31	-1.382996774	0.01141827	0.51219505
ENSG00000166432	ZMAT1	zinc finger matrin-type 1	101882288	101932031	-	84460	X	24	9	1.379777349	0.02192594	0.70005671
ENSG00000138207	RBP4	retinol binding protein 4	93591687	93601744	-	5950	10	4	16	-1.989467105	0.0161862	0.5958645
ENSG00000114115	RBP1	retinol binding protein 1	139517434	139539829	-	5947	3	14	31	-1.162747492	0.02943072	0.82585301
ENSG00000231393	AL357874.2	NA	35642514	35643517	+	NA	9	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000183066	WBP2NL	WBP2 N-terminal like	41998725	42058456	+	164684	22	2	12	-2.534725564	0.01608407	0.5958645
ENSG00000227456	LINC00310	NA	34157724	34190244	+	114036	21	1	8	-2.874057027	0.04333145	0.95821355
ENSG00000180422	LINC00304	NA	89159146	89164245	+	283860	16	48	19	1.308359219	0.00257631	0.22216267
ENSG00000259318	AL356801.1	NA	55394940	55395233	-	NA	14	23	4	2.464326383	0.00067212	0.09763777
ENSG00000233858	AC026904.1	NA	48590401	48594621	+	NA	8	2	11	-2.410535462	0.02678048	0.77212427
ENSG00000232977	LINC00327	NA	23466571	23487464	+	100506697	13	24	59	-1.316228115	0.00139668	0.15453355
ENSG00000178977	LINC00324	NA	8220642	8224043	-	284029	17	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000255874	LINC00346	NA	110863987	110870251	-	283487	13	16	3	2.344849074	0.00639309	0.38046285
ENSG00000255836	AC131206.1	NA	7438780	7439990	-	NA	12	70	28	1.295074666	0.0006773	0.09813928
ENSG00000258284	POLR2KP1	NA	49594091	49594258	+	NA	12	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000152128	TMEM163	transmembrane protein 163	134455759	134719000	-	81615	2	7	0	5.821602045	0.01729787	0.5958645
ENSG00000164112	TMEM155	transmembrane protein 155	121758933	121765427	-	132332	4	0	8	-6.033772917	0.00894141	0.44242407
ENSG00000198711	SSBP3-AS1	NA	54236440	54239063	+	619518	1	25	5	2.270765538	0.00075899	0.10617391
ENSG00000280143	AP000892.3	NA	117204967	117210292	+	NA	11	4	16	-1.989467105	0.0161862	0.5958645
ENSG00000277142	LINC00235	NA	525155	527407	-	NA	16	24	8	1.547253547	0.01209816	0.53423305
ENSG00000254363	AC011379.2	NA	140157319	140173051	+	101929719	5	1	14	-3.671943573	0.00141036	0.15453355
ENSG00000221540	MIR1180	NA	19344506	19344574	-	100302256	17	0	8	-6.033772917	0.00894141	0.44242407
ENSG00000254612	AP001000.1	NA	127940913	127941654	-	NA	11	82	36	1.161808415	0.00101686	0.12917106
ENSG00000224939	LINC00184	NA	234629311	234634780	+	100302691	1	20	7	1.47522798	0.0276789	0.78920399
ENSG00000240038	AMY2B	amylase, alpha 2B (pancreatic)	103553815	103579534	+	280	1	29	62	-1.115916114	0.00483422	0.3155329
ENSG00000166448	TMEM130	transmembrane protein 130	98846488	98870771	-	222865	7	2	11	-2.410535462	0.02678048	0.77212427
ENSG00000183160	TMEM119	transmembrane protein 119	108589846	108598320	-	338773	12	190	494	-1.400990239	5.05E-09	1.21E-05
ENSG00000196361	ELAVL3	ELAV like RNA binding protein 3	11451326	11481046	-	1995	19	6	0	5.603454913	0.03361661	0.8324078
ENSG00000181284	TMEM102	transmembrane protein 102	7435443	7437679	+	284114	17	14	40	-1.529185439	0.00203931	0.19615799
ENSG00000144868	TMEM108	transmembrane protein 108	133038391	133397792	+	66000	3	32	15	1.063828603	0.03399614	0.83595983
ENSG00000271580	AL583832.1	NA	205091163	205091946	+	NA	1	1	10	-3.191574278	0.01395124	0.57317426
ENSG00000276337	AC105429.1	NA	87470370	87474370	-	NA	16	7	0	5.821602045	0.01729787	0.5958645
ENSG00000267121	AC008105.3	NA	45190931	45222222	-	339192	17	9	1	2.998267012	0.02463495	0.74193929
ENSG00000261360	AC010491.1	NA	14661808	14664604	-	NA	5	24	4	2.525399375	0.00042196	0.07378461
ENSG00000243368	MCCC1-AS1	NA	183016255	183017808	+	NA	3	0	11	-6.4871864	0.00126829	0.14621903
ENSG00000137463	MGARP	mitochondria localized glutamic acid rich protein	139266163	139280338	-	84709	4	12	27	-1.184539242	0.03830181	0.90546426
ENSG00000064547	LPAR2	lysophosphatidic acid receptor 2	19623668	19628930	-	9170	19	17	4	2.030998852	0.01039936	0.47399509
ENSG00000115008	IL1A	interleukin 1 alpha	112773915	112784590	-	3552	2	87	30	1.50911699	2.92E-05	0.01270536
ENSG00000125538	IL1B	interleukin 1 beta	112829751	112836903	-	3553	2	194	38	2.325148994	8.64E-14	8.15E-10
ENSG00000139890	REM2	RRAD and GEM like GTPase 2	22883165	22887686	+	161253	14	6	0	5.603454913	0.03361661	0.8324078
ENSG00000205544	TMEM256	transmembrane protein 256	7402975	7404137	-	254863	17	5	25	-2.316233887	0.00075899	0.10617391
ENSG00000259984	AL928711.1	NA	25336429	25337465	-	NA	1	15	0	6.90746823	9.96E-05	0.02829695
ENSG00000227344	HAAUSP1	NA	53187388	53188938	+	NA	7	6	0	5.603454913	0.03361661	0.8324078
ENSG00000241764	AC002467.1	NA	107742817	107744581	-	101927974	7	13	2	2.604498362	0.00961124	0.45874658
ENSG00000189376	Cborf76	chromosome 8 open reading frame 76	123219957	123241398	-	84933	8	16	4	1.944199246	0.0161862	0.5958645
ENSG00000205978	NYNRIN	NYN domain and retroviral integrase containing	24398786	24419288	+	57523	14	206	409	-1.012084623	2.46E-05	0.01141042
ENSG00000275198	AL512791.2	NA	90383365	90387973	+	NA	14	3	12	-1.978549282	0.04197539	0.95430001
ENSG00000165821	SALL2	spalt like transcription factor 2	21521081	21537216	-	6297	14	42	108	-1.382976913	3.18E-05	0.0134579
ENSG00000187510	PLEKHG7	pleckstrin homology and RhoGEF domain containing G7	92721462	92772455	+	440107	12	8	0	6.011054937	0.00894141	0.44242407
ENSG00000240338	AC009078.2	NA	75226074	75228197	+	100506281	16	56	17	1.689576513	8.63E-05	0.02652668
ENSG00000253270	AC090541.1	NA	19678572	19688934	+	NA	8	13	2	2.604498362	0.00961124	0.45874658
ENSG00000263786	AC022211.1	NA	75145261	75146546	-	NA	17	7	0	5.821602045	0.01729787	0.5958645
ENSG00000273901	AC012313.9	NA	58500505	58501137	+	NA	19	6	0	5.603454913	0.03361661	0.8324078
ENSG00000268543	AC012313.4	NA	58418560	58419310	+	NA	19	15	3	2.252490968	0.0103193	0.47399509
ENSG00000182107	TMEM30B	transmembrane protein 30B	61277370	61281840	-	161291	14	7	23	-1.721299651	0.00903825	0.44449827
ENSG00000224855	OPA1-AS1	NA	193618609	193627337	-	100873941	3	6	0	5.603454913	0.03361661	0.8324078
ENSG00000117594	HSD11B1	hydroxysteroid 11-beta dehydrogenase 1	209686178	209734950	+	3290	1	53	26	1.000969301	0.01230527	0.53917642
ENSG00000176387	HSD11B2	hydroxysteroid 11-beta dehydrogenase 2	67430652	67437553	+	3291	16	11	0	6.464372701	0.00126829	0.14621903
ENSG00000102760	RGCC	regulator of cell cycle	41457559	41470882	+	28984	13	149	298	-1.022453656	5.26E-05	0.0193511
ENSG00000257337	AC068888.1	NA	53014596	53054438	-	283335	12	37	16	1.180147198	0.0133442	0.56335009
ENSG00000273173	SNURF	SNRPN upstream reading frame	24954986	24977850	+	8926	15	16	5	1.630973135	0.03470407	0.84532906
ENSG00000256084	AC092112.1	NA	14216590	14221297	+	NA	12	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000167397	VKORC1	vitamin K epoxide reductase complex subunit 1	31090842	31095980	-	79001	16	12	30	-1.33588264	0.01556371	0.5958645
ENSG00000143850	PLEKHA6	pleckstrin homology domain containing A6	204218851	204377665	-	22874	1	38	91	-1.280128864	0.0002196	0.04859947
ENSG00000116741	RGS2	regulator of G protein signaling 2	192809039	192812283	+	5997	1	90	34	1.378083626	8.65E-05	0.02652668
ENSG00000256591	AP003108.2	novel transcript	61429220	61485822	+	NA	11	4	14	-1.798406149	0.03847433	0.90546426
ENSG00000160325	CACFD1	calcium channel flower domain containing 1	133459965	133470848	+	11094	9	73	159	-1.144768047	7.23E-05	0.0239478
ENSG00000151715	TMEM45B	transmembrane protein 45B	129815819	129860003	+	120224	11	2	13	-2.649067302	0.00961124	0.45874658
ENSG00000261879	AC087500.1	NA	5192084	5248069	+	NA	17	4	16	-1.989467105	0.0161862	0.5958645
ENSG00000254418	SPON1-AS1	NA	14262846	1427								

ENSG00000225507	AC069282.1	NA	47956793	47957318	+	NA	7	17	40	-1.251350202	0.00913405	0.44611156
ENSG00000123453	SARDH	sarcosine dehydrogenase	133663560	133739955	-	1757	9	74	31	1.228879207	0.00089935	0.11726934
ENSG00000166492	FAM86GP	NA	3410352	3422496	-	NA	11	13	0	6.702865037	0.00035249	0.06443635
ENSG00000205790	DPP9-AS1	NA	4679282	4685948	+	NA	19	13	2	2.604498362	0.00961124	0.45874658
ENSG00000268499	AC011479.2	NA	38199836	38200934	+	NA	19	9	0	6.178492236	0.00464266	0.30691904
ENSG00000078401	EDN1	endothelin 1	12290363	12297194	+	1906	6	855	384	1.131491963	4.71E-07	0.00060606
ENSG00000167992	VWCE	von Willebrand factor C and EGF domains	61258286	61295424	-	220001	11	18	36	-1.017970056	0.03848483	0.90546426
ENSG00000227374	AL157832.1	NA	129768844	129769435	+	NA	10	0	9	-6.201249115	0.00464266	0.30691904
ENSG00000179046	TRIML2	tripartite motif family like 2	188091273	188109603	-	205860	4	17	1	3.906400717	0.00025279	0.0532408
ENSG00000264107	AC138207.2	NA	31090787	31095450	-	NA	17	2	18	-3.114761185	0.00070095	0.10003166
ENSG00000269386	RAB11B-AS1	NA	8374373	8390685	-	100507567	19	3	15	-2.297523269	0.0103193	0.47399509
ENSG00000233602	ERI3-IT1	NA	44243408	44244273	-	100874278	1	0	8	-6.033772917	0.00894141	0.44242407
ENSG00000189367	KIAA0408	KIAA0408	127440343	127459391	-	9729	6	12	3	1.93356416	0.04197539	0.95430001
ENSG00000166546	BEAN1	brain expressed associated with NEDD4 1	66427297	66493529	+	146227	16	20	2	3.22113151	0.00024375	0.05305877
ENSG00000104415	WISP1	WNT1 inducible signaling pathway protein 1	133191039	133230344	+	8840	8	336	670	-1.018498878	7.60E-06	0.00481643
ENSG00000268873	AC022601.1	NA	34737795	34767663	-	NA	18	8	1	2.830829713	0.04333145	0.95821355
ENSG00000255337	AP001830.1	NA	102452919	102462008	+	101928424	11	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000233885	YEATS2-AS1	NA	183806457	183810783	-	NA	3	12	33	-1.472846189	0.00607118	0.37185167
ENSG00000254909	AP003392.2	NA	119005727	119005934	-	NA	11	6	20	-1.738972905	0.01430617	0.58310523
ENSG00000255121	AP003392.4	NA	118994824	118998004	-	NA	11	27	11	1.262927649	0.02384497	0.73821694
ENSG00000260339	HEXA-AS1	NA	72376113	72378788	+	80072	15	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000258130	AC106782.1	NA	30204316	30209071	-	613038	16	2	15	-2.85369955	0.00339444	0.27265605
ENSG00000157578	LCA5L	LCA5L, lebercilin like	39405844	39445805	-	150082	21	52	21	1.280047125	0.00222023	0.20964481
ENSG00000266124	MIR5587	NA	535316	535368	+	100847028	16	7	0	5.821602045	0.01729787	0.5958645
ENSG00000267776	AC006116.10	NA	56376704	56377284	-	NA	19	9	1	2.998267012	0.02463495	0.74193929
ENSG00000237410	AP001092.1	NA	64646399	64659681	+	NA	11	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000235033	AL590999.1	NA	39881804	39900071	-	100505635	6	12	36	-1.597926937	0.0022933	0.21443156
ENSG00000231064	AC234582.1	NA	155195004	155205495	+	NA	1	4	18	-2.158158808	0.00664724	0.38704964
ENSG00000161265	U2AF1L4	U2 small nuclear RNA auxiliary factor 1 like 4	35742464	35745445	-	199746	19	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000129009	ISLR	immunoglobulin superfamily containing leucine rich repeat	74173671	74176872	+	3671	15	40	12	1.703598578	0.00060271	0.09279021
ENSG00000186529	CYP4F3	cytochrome P450 family 4 subfamily F member 3	15640897	15662825	+	4051	19	14	3	2.153813442	0.01657597	0.5958645
ENSG00000251127	AC091173.1	NA	61759094	61765969	-	NA	8	38	6	2.615155924	7.46E-06	0.00480171
ENSG00000228049	POLR2J2	RNA polymerase II subunit J2	102665368	102671629	-	NA	7	14	0	6.808790704	0.000187	0.04333935
ENSG00000187942	LDLRAD2	low density lipoprotein receptor class A domain containing 2	21812265	21825221	+	401944	1	6	0	5.603454913	0.03361661	0.8324078
ENSG00000274419	TBC1D3D	TBC1 domain family member 3D	38003976	38014902	+	101060389	17	15	42	-1.500684914	0.00191784	0.18831051
ENSG00000162482	AKR7A3	aldo-keto reductase family 7 member A3	19282558	19289250	-	22977	1	11	2	2.366006025	0.02678048	0.77212427
ENSG00000260669	AL096870.2	NA	24209646	24215987	-	NA	14	7	0	5.821602045	0.01729787	0.5958645
ENSG00000204959	ARHGEF34P	NA	144272445	144286966	-	NA	7	19	39	-1.055591689	0.02660856	0.77212427
ENSG00000280046	AC104581.4	NA	7858943	7866083	+	NA	17	34	16	1.058588633	0.02990678	0.8324078
ENSG00000261732	AL031708.1	novel transcript	1632259	1686715	+	NA	16	3	12	-1.978549282	0.04197539	0.95430001
ENSG00000221539	SNORD99	NA	28578749	28578822	-	692212	1	6	0	5.603454913	0.03361661	0.8324078
ENSG00000221740	SNORD93	NA	22856613	22856686	+	692210	7	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000274751	AC120498.9	NA	1305547	1309413	-	NA	16	6	0	5.603454913	0.03361661	0.8324078
ENSG00000259349	AC011921.1	NA	60526293	60550798	+	NA	17	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000234377	RNF219-AS1	NA	77919689	78617328	+	100874222	13	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000269940	AL049840.3	NA	103694560	103695170	+	NA	14	3	15	-2.297523269	0.0103193	0.47399509
ENSG00000225790	AC007953.1	NA	177934823	177937662	+	NA	3	3	17	-2.47670325	0.00394482	0.29823018
ENSG00000267040	AC027097.1	NA	57630302	57669296	+	NA	18	3	12	-1.978549282	0.04197539	0.95430001
ENSG00000073067	CYP2W1	cytochrome P450 family 2 subfamily W member 1	983199	989640	+	54905	7	8	0	6.011054937	0.00894141	0.44242407
ENSG00000278989	AP001148.1	NA	86434924	86437282	-	NA	11	8	24	-1.59292492	0.01209816	0.53423305
ENSG00000128262	POM121L9P	NA	24251828	24265525	+	29774	22	149	340	-1.212601944	1.24E-06	0.001307
ENSG00000265437	AP005212.2	NA	14361434	14361943	-	NA	18	6	0	5.603454913	0.03361661	0.8324078
ENSG00000226049	TLK2P1	NA	34036681	34039872	-	NA	17	40	17	1.205444611	0.00913405	0.44611156
ENSG00000149489	ROM1	retinal outer segment membrane protein 1	62611722	62615120	+	6094	11	16	39	-1.301738249	0.00764597	0.42552295
ENSG00000166634	SERPINB12	serpin family B member 12	63556160	63567011	+	89777	18	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000198963	RORB	RAR related orphan receptor B	74491365	74693177	+	6096	9	14	14	-3.671943573	0.00141036	0.15455355
ENSG00000047936	ROS1	ROS proto-oncogene 1, receptor tyrosine kinase	117288300	117425855	-	6098	6	23	4	2.464326383	0.00067212	0.09763777
ENSG00000023445	BIRC3	baculoviral IAP repeat containing 3	102317450	102339403	+	330	11	515	253	1.002008112	1.82E-05	0.00875043
ENSG00000239280	AC108693.1	NA	113740823	113741254	-	NA	3	8	0	6.011054937	0.00894141	0.44242407
ENSG00000261342	AC006538.1	NA	2727743	2729327	-	NA	19	12	3	1.93356416	0.04197539	0.95430001
ENSG00000080007	DDX43	DEAD-box helicase 43	73394748	73417569	+	55510	6	2	14	-2.755008525	0.00572059	0.35537281
ENSG00000227954	TARID	NA	133502252	133892802	-	100507308	6	66	28	1.210342861	0.00136121	0.15301506
ENSG00000135917	SLC19A3	solute carrier family 19 member 3	227685210	227718012	-	80704	2	15	3	2.252490968	0.0103193	0.47399509
ENSG00000259891	AC107375.1	NA	140505813	140508043	-	NA	8	14	41	-1.5647006	0.00149235	0.15991045
ENSG00000231993	EP300-AS1	NA	41174591	41197456	-	NA	22	2	13	-2.649067302	0.00961124	0.45874658
ENSG00000263327	TAP1-AS1	NA	16226685	16320140	+	202020	4	9	22	-1.300630732	0.04253884	0.95821355
ENSG00000240093	AC093627.3	NA	182935	194180	-	NA	7	26	7	1.851653778	0.00282728	0.23551614
ENSG00000163815	CLEC3B	C-type lectin domain family 3 member B	45001548	45036071	+	7123	3	1	13	-3.56600235	0.00250381	0.21723364
ENSG00000272084	AL137127.1	NA	19072110	19075511	-	NA	1	22	3	2.801203118	0.00033955	0.06443635
ENSG00000258900	HNRNP112	NA	58521223	58521988	+	NA	14	21	7	1.545187146	0.01916925	0.63844355
ENSG00000206712	RNU6-26P	NA	98804978	98805084	-	NA	3	82	40	1.010300631	0.00365246	0.28542107
ENSG00000205670	SMIM11A	small integral membrane protein 11A	34375480	34407866	+	54065	21	34	8	2.047536136	0.00027344	0.05612867
ENSG00000186377	CYP4X1	cytochrome P450 family 4 subfamily X member 1	47023568	47050751	+	260293	1	2	11	-2.410535462	0.02678048	0.77212427
ENSG00000278918	AC080112.3	NA	40348049	40350539	-	NA	17	0	10	-6.351290168	0.00242129	0.21443156
ENSG00000183977	PP2D1	protein phosphatase 2C like domain containing 1	19979961	20012330	-	151649	3	24	8	1.547253547	0.01209816	0.53423305
ENSG00000233025	CRYZP1	NA	103088664	103089610	-	NA	7	14	3	2.153813442	0.01657597	0.5958645
ENSG00000230565	ZNF32-AS2	NA	43645942	43648019	+	414208	10	23	5	2.151100271	0.00182283	0.18408612
ENSG00000102057	KCND1	potassium voltage-gated channel subfamily D member 1	48961378	48971569	-	3750	X	42	108	-1.382976913	3.18E-05	0.0134579
ENSG00000178342	KCNG2	potassium voltage-gated channel modifier subfamily G member 2	79863668	79900184	+	26251	18	39	15	1.34821487	0.00470459	0.31023948
ENSG00000175538	KCNE3	potassium voltage-gated channel subfamily E regulatory subunit 3	74454841	74467729	-	10008	11	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000049249	TNFRSF9	TNF receptor superfamily member 9	7915894	7943165	-	3604	1	8	0	6.011054937	0.00894141	0.44242407
ENSG00000185760	KCNQ5	potassium voltage-gated channel subfamily Q member 5	72621792	73198851	+	56479	6	51	23	1.121593197	0.00657299	0.38704964
ENSG00000262663	AC087222.1	NA	82918282	82918785	+	NA	17	10	2	2.230135398	0.04430615	0.96117306
ENSG00000198286	CARD11	caspase										

ENSG00000233626	AC092814.1	NA	211936249	211936634	+	NA	1	9	0	6.178492236	0.00464266	0.30691904
ENSG00000255866	AC090023.1	NA	65559591	65560889	+	NA	12	4	17	-2.07627155	0.01039936	0.47399509
ENSG00000272277	AL031963.3	NA	3068045	3068894	-	NA	6	0	10	-6.351290168	0.00242129	0.21443156
ENSG00000249740	OSMR-AS1	NA	38710367	38845829	-	101926904	5	31	15	1.018207428	0.04433348	0.96117306
ENSG00000255561	FDXACB1	ferredoxin-fold anticodon binding domain containing 1	111874056	111881243	-	91893	11	19	7	1.401702691	0.03970312	0.92328994
ENSG00000132938	MTUS2	microtubule associated scaffold protein 2	28820348	29505947	+	23281	13	0	8	-6.033772917	0.00894141	0.44242407
ENSG00000214796	AC098934.1	NA	202851828	202861620	-	NA	1	11	2	2.366006025	0.02678048	0.77212427
ENSG00000240395	RPL5P23	NA	42341767	42342634	-	NA	8	7	0	5.821602045	0.01729787	0.5958645
ENSG00000255282	WTAPP1	NA	102746968	102836766	+	100288077	11	22	9	1.254931265	0.04253884	0.95821355
ENSG00000213707	HMGB1P10	NA	26560526	26561088	+	NA	22	14	30	-1.115633358	0.03879354	0.90953385
ENSG00000244668	SNRPP3	NA	150719997	150720836	-	NA	3	0	12	-6.611376502	0.00066721	0.09763777
ENSG00000270344	POC1B-AS1	NA	89525654	89548005	+	NA	12	23	6	1.893896485	0.00429585	0.30691904
ENSG00000284052	AC006460.2	NA	190607660	190649840	-	NA	2	46	12	1.904641422	7.67E-05	0.02458115
ENSG00000230519	HMGB1P49	NA	27702338	27702906	+	NA	12	2	10	-2.27463923	0.04430615	0.96117306
ENSG00000235587	GAPDHP65	NA	46439709	46440714	-	NA	X	4	17	-2.07627155	0.01039936	0.47399509
ENSG00000014257	ACPP	acid phosphatase, prostate	132317367	132368298	+	55	3	10	2	2.230135398	0.04430615	0.96117306
ENSG00000237943	PRKCO-AS1	NA	6580419	6616452	+	NA	10	13	3	2.047887775	0.0264707	0.77212427
ENSG00000258949	AL049870.3	NA	44898908	44911863	-	101927418	14	7	0	5.821602045	0.01729787	0.5958645
ENSG00000231995	AL590399.4	NA	62266319	62266919	+	NA	9	1	10	-3.191574278	0.01395124	0.57317426
ENSG00000093072	ADA2	adenosine deaminase 2	17178790	17221989	-	51816	22	0	8	-6.033772917	0.00894141	0.44242407
ENSG00000179133	C10orf67	chromosome 10 open reading frame 67	23201916	23344845	-	256815	10	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000282034	AC106886.5	novel transcript	30704067	30745169	+	NA	16	10	2	2.230135398	0.04430615	0.96117306
ENSG00000273218	AC005776.2	NA	15346068	15348417	-	NA	19	12	1	3.408316198	0.00444385	0.30691904
ENSG00000280211	AC106886.4	NA	30773532	30776033	-	NA	16	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000255399	TBX5-AS1	NA	114408191	114412831	+	NA	12	26	8	1.662151066	0.00582377	0.3607372
ENSG00000278916	CEP83-AS1	NA	94460003	94462484	+	144486	12	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000273055	AC005046.1	NA	107942116	107942740	+	NA	7	48	21	1.164860486	0.00619366	0.3744952
ENSG00000260686	AC008669.1	NA	122832356	122834533	+	NA	5	36	17	1.053944785	0.02640494	0.77212427
ENSG00000278396	AL122023.1	NA	93334528	93335057	+	NA	14	11	0	6.464372701	0.00126829	0.14621903
ENSG00000233270	SNRPEP4	NA	5576660	5576938	-	NA	19	8	21	-1.401338831	0.03484493	0.84532906
ENSG00000167220	HDHD2	haloacid dehalogenase like hydrolase domain containing 2	47107403	47150520	-	84064	18	7	21	-1.590791723	0.01916925	0.63844355
ENSG00000078814	MYH7B	myosin heavy chain 7B	34975403	35002437	+	57644	20	72	16	2.138236737	2.80E-07	0.00039591
ENSG00000171757	LRRC34	leucine rich repeat containing 34	169793428	169812986	-	151827	3	20	53	-1.423376297	0.00106592	0.13364727
ENSG00000238271	IFNWP19	NA	21455484	21456049	+	NA	9	23	4	2.464326383	0.00067212	0.09763777
ENSG00000278616	BEND3P3	NA	79682997	79685436	+	NA	10	8	20	-1.33137288	0.04895303	1
ENSG00000160838	LRRC71	leucine rich repeat containing 71	156920650	156933094	+	149499	1	19	3	2.590995634	0.00148807	0.15991045
ENSG00000237276	ANO7L1	NA	16215909	16228027	-	NA	1	21	2	3.291090676	0.0001437	0.03734573
ENSG00000226149	AL356124.1	NA	129526626	129552587	-	NA	6	2	11	-2.410535462	0.02678048	0.77212427
ENSG00000224152	AC009506.1	NA	159615296	159617082	+	NA	2	12	3	1.93356416	0.04197539	0.95430001
ENSG00000231172	AC007099.1	NA	75524068	75542706	+	101927884	2	7	0	5.821602045	0.01729787	0.5958645
ENSG00000171017	LRRC8E	leucine rich repeat containing 8 VRAC subunit E	7888505	7902021	+	80131	19	8	0	6.011054937	0.00894141	0.44242407
ENSG00000178752	ERFE	erythroferrone	238158982	238168900	+	151176	2	53	26	1.000969301	0.01230527	0.53917642
ENSG00000124882	EREG	epiregulin	74365143	74388751	+	2069	4	434	183	1.222220002	4.62E-07	0.00060606
ENSG00000187045	TMPRSS6	transmembrane serine protease 6	37065436	37109563	-	164656	22	7	0	5.821602045	0.01729787	0.5958645
ENSG00000235946	AC234783.1	NA	104062542	104063037	-	NA	X	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000164929	BAAALC	BAAALC, MAP3K1 and KLF4 binding	103140710	103230305	+	79870	8	7	28	-2.003710468	0.00128011	0.14621903
ENSG00000239407	Z68871.1	NA	102884414	102906158	+	NA	X	46	19	1.247122889	0.00441553	0.30691904
ENSG00000155966	AF2	AF4/FMR2 family member 2	148500619	149000663	+	2334	X	62	21	1.53324114	0.00015003	0.03862803
ENSG00000087494	PTH1LH	parathyroid hormone like hormone	27958084	27972705	-	5744	12	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000133105	RXFP2	relaxin family peptide receptor 2	31739542	31803388	+	122042	13	7	0	5.821602045	0.01729787	0.5958645
ENSG00000182631	RXFP3	relaxin family peptide receptor 3	33936386	33938237	+	51289	5	0	8	-6.033772917	0.00894141	0.44242407
ENSG00000278834	AC073508.3	NA	40648300	40649718	+	NA	17	11	1	3.284147477	0.00788025	0.42560136
ENSG00000245156	AP001107.1	NA	66269832	66278525	-	NA	11	13	0	6.702865037	0.00035249	0.06443635
ENSG00000254756	AP001107.6	NA	66334494	66339875	+	NA	11	11	1	3.284147477	0.00788025	0.42560136
ENSG00000235159	AL121672.2	NA	46067356	46069891	-	NA	22	13	2	2.604498362	0.00961124	0.45874658
ENSG00000258315	C17orf49	chromosome 17 open reading frame 49	7014495	7017525	+	124944	17	1	11	-3.32747051	0.00788025	0.42560136
ENSG00000214226	C17orf67	chromosome 17 open reading frame 67	56791913	56838773	-	339210	17	43	19	1.150100609	0.00971496	0.46097241
ENSG00000258902	AL049775.2	NA	85362457	85516934	-	NA	14	45	18	1.292984515	0.00366341	0.28588237
ENSG00000242798	AC073842.2	NA	100115214	100127139	-	NA	7	2	14	-2.755008525	0.00572059	0.35537281
ENSG00000214338	SOGA3	SOGA family member 3	127472794	127519191	-	NA	6	0	8	-6.033772917	0.00894141	0.44242407
ENSG00000168229	PTGDR	prostaglandin D2 receptor	52267713	52276724	+	5729	14	8	0	6.011054937	0.00894141	0.44242407
ENSG00000073350	LLGL2	LLGL2, scribble cell polarity complex component	75525080	75575208	+	3993	17	8	0	6.011054937	0.00894141	0.44242407
ENSG00000117507	FMO6P	NA	171137740	171161568	+	388714	1	4	21	-2.379140453	0.00169524	0.17655137
ENSG00000284652	BX323043.1	NA	9421098	9422862	-	NA	1	1	9	-3.041533225	0.02463495	0.74193929
ENSG00000187017	ESPN	espin	6424788	6461370	+	83715	1	1	8	-2.874057027	0.04333145	0.95821355
ENSG00000091831	ESR1	estrogen receptor 1	151656691	152129619	+	2099	6	12	1	3.408316198	0.00444385	0.30691904
ENSG00000282840	AC004554.2	NA	11668401	11757718	-	NA	X	0	9	-6.201249115	0.00464266	0.30691904
ENSG00000270808	AC022400.4	NA	73740538	73740823	-	NA	10	7	0	5.821602045	0.01729787	0.5958645
ENSG00000120215	MLANA	melan-A	5910606	5910606	+	2315	9	10	26	-1.390384455	0.01953014	0.64560355
ENSG00000253829	AC067817.2	NA	38844866	38846439	-	NA	8	7	0	5.821602045	0.01729787	0.5958645
ENSG00000187546	AGMO	alkylglycerol monoxygenase	15200318	15562015	-	392636	7	44	91	-1.069275066	0.00160508	0.16965643
ENSG00000262075	DKFZP434A062	NA	136322303	136327323	-	26102	9	7	0	5.821602045	0.01729787	0.5958645
ENSG00000201579	RNU6-343P	NA	56588518	56588621	+	NA	12	8	0	6.011054937	0.00894141	0.44242407
ENSG00000279179	AL662907.2	NA	33162851	33166298	+	NA	1	12	27	-1.184539242	0.03830181	0.90546426
ENSG00000229589	ACVR2B-AS1	NA	38451027	38454820	-	100128640	3	6	0	5.603454913	0.03361661	0.8324078
ENSG00000155761	SPAG17	sperm associated antigen 17	117953861	118185223	-	200162	1	8	0	6.011054937	0.00894141	0.44242407
ENSG00000160284	SPATC1L	spermatogenesis and centriole associated 1 like	46161148	46184476	-	84221	21	39	109	-1.502841866	7.67E-06	0.00481643
ENSG00000197261	C6orf141	chromosome 6 open reading frame 141	49550646	49561907	+	135398	6	7	25	-1.840974846	0.00418133	0.30691904
ENSG00000075275	CELSR1	cadherin EGF LAG seven-pass G-type receptor 1	46360834	46537170	-	9620	22	10	0	6.328502073	0.00242129	0.21443156
ENSG00000154760	SLFN13	schlafen family member 13	35435096	35448837	-	146857	17	24	6	1.954969477	0.00285251	0.23661633
ENSG00000247982	LINC00926	NA	57300365	57307769	+	283663	15	16	34	-1.104471142	0.02990678	0.8324078
ENSG00000281005	LINC00921	NA	3263743	3267567	+	283876	16	0	13	-6.72571824	0.00035249	0.06443635
ENSG00000189238	LINC00943	NA	126726270	126746252	+	NA	12	11	1	3.284147477	0.00788025	0.42560136
ENSG00000100300	ETV7	ETS variant 7	36354091	36387800	-	51513	6	2	14	-2.755008525		

ENSG00000242294	STAG3L5P	NA	100336079	100351900	+	101735302	7	14	34	-1.295506774	0.01249671	0.54336246
ENSG00000145423	SFRP2	secreted frizzled related protein 2	153780592	153789120	-	6423	4	88	240	-1.469212928	5.85E-08	0.00011054
ENSG00000231672	DIRC3	NA	217284019	217756593	-	NA	2	7	0	5.821602045	0.01729787	0.5958645
ENSG00000172673	THEMIS	thymocyte selection associated	127708072	127918631	-	387357	6	4	15	-1.897097174	0.02504257	0.74870021
ENSG00000223653	AL078459.1	NA	85276715	85448124	+	NA	1	4	17	-2.076277155	0.01039936	0.47399509
ENSG00000163694	RBM47	RNA binding motif protein 47	40423267	40630875	-	54502	4	6	20	-1.738972905	0.01430617	0.58310523
ENSG00000227256	MIS18A-AS1	NA	32277863	32280988	+	NA	21	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000103888	CEMIP	cell migration inducing hyaluronidase 1	80779343	80951776	+	57214	15	2793	7366	-1.422097968	1.38E-11	6.49E-08
ENSG00000181031	RPH3AL	rabphilin 3A like (without C2 domains)	212389	386254	-	9501	17	7	22	-1.657520922	0.01319757	0.55984925
ENSG00000165874	FAM35BP	NA	46610474	46652025	-	414241	10	10	26	-1.390384455	0.01953014	0.64560355
ENSG00000265912	AC037487.1	NA	64943262	64951054	+	NA	17	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000278876	AC145207.9	NA	81862778	81863102	+	NA	17	2	15	-2.85369955	0.00339444	0.27265605
ENSG00000263731	AC145207.5	NA	81878425	81881106	-	NA	17	14	31	-1.162747492	0.02943072	0.82585301
ENSG00000241218	AC063944.2	NA	107327830	107329197	-	NA	3	1	11	-3.32747051	0.00788025	0.42560136
ENSG00000239828	AC063944.1	NA	107272611	107421304	-	NA	3	11	2	2.366006025	0.02678048	0.77212427
ENSG00000273368	AC006566.1	NA	8154558	8155070	+	NA	18	6	0	5.603454913	0.03361661	0.8324078
ENSG00000253210	AC040970.1	NA	141126044	141129961	-	NA	8	21	8	1.355684435	0.03484493	0.84532906
ENSG00000264575	LINC00526	NA	5236724	5238598	-	NA	18	4	15	-1.897097174	0.02504257	0.74870021
ENSG00000258791	LINC00520	NA	55781135	55796688	-	645687	14	16	4	1.944199246	0.0161862	0.5958645
ENSG00000123329	ARHGAP9	Rho GTPase activating protein 9	57472255	57488814	-	64333	12	1	8	-2.874057027	0.04333145	0.95821355
ENSG00000279331	RBM12B-AS1	NA	93740121	93740773	+	55472	8	18	5	1.799645102	0.01534811	0.5958645
ENSG00000235410	AL157896.1	NA	14074284	14087605	+	NA	10	9	0	6.178492236	0.00464266	0.30691904
ENSG00000223685	LINC00571	NA	38050817	38143232	-	100874188	13	23	4	2.464326383	0.00067212	0.09763777
ENSG00000157168	NRG1	neuregulin 1	31639386	32767959	+	3084	8	98	32	1.587910939	5.65E-06	0.00376421
ENSG00000158458	NRG2	neuregulin 2	139846779	140043299	+	9542	5	0	11	-6.4871864	0.00126829	0.14621903
ENSG00000169752	NRG4	neuregulin 4	75935969	76059795	-	145957	15	21	3	2.734480089	0.00055646	0.08847317
ENSG00000251191	LINC00589	NA	29673922	29748109	-	619351	8	8	0	6.011054937	0.00894141	0.44242407
ENSG00000135298	ADGRB3	adhesion G protein-coupled receptor B3	68635367	69389511	+	577	6	18	6	1.542441316	0.0310526	0.8324078
ENSG00000178662	CSRNP3	cysteine and serine rich nuclear protein 3	165469647	165689407	+	80034	2	16	33	-1.061561275	0.03880228	0.90953385
ENSG00000243953	AC073359.1	NA	154969283	154970223	-	105374171	3	12	1	3.408316198	0.00444385	0.30691904
ENSG00000203724	C1orf53	chromosome 1 open reading frame 53	197902647	197907367	+	388722	1	29	86	-1.587180714	1.41E-05	0.00732216
ENSG00000153294	ADGRF4	adhesion G protein-coupled receptor F4	47685864	47722021	+	221393	6	39	9	2.077316244	9.19E-05	0.0277068
ENSG00000069122	ADGRF5	adhesion G protein-coupled receptor F5	46852512	46954943	-	221395	6	8	1	2.830829713	0.04333145	0.95821355
ENSG00000039139	DNAH5	dynein axonemal heavy chain 5	13690331	13944543	-	1767	5	45	13	1.758678398	0.00021875	0.04859947
ENSG00000203327	AC012358.1	NA	55214387	55216126	-	NA	2	4	16	-1.989467105	0.0161862	0.5958645
ENSG00000235532	LINC00402	NA	74231457	74259976	-	100507612	13	11	2	2.366006025	0.02678048	0.77212427
ENSG00000239472	RN7SL221P	NA	5918564	5918844	-	NA	6	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000201499	RNU6-312P	NA	200881715	200881821	-	NA	2	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000178093	TSSK6	testis specific serine kinase 6	19512418	19515685	-	83983	19	14	32	-1.208371551	0.02221906	0.70640908
ENSG00000139908	TSSK4	testis specific serine kinase 4	24205697	24208362	+	283629	14	52	24	1.088461035	0.00758323	0.42411433
ENSG00000181029	TRAPP5	trafficking protein particle complex 5	7680843	7687703	+	126003	19	1	9	-3.041533225	0.02463495	0.74193929
ENSG00000198624	CCDC69	coiled-coil domain containing 69	151181052	151224145	-	26112	5	27	77	-1.530576528	4.84E-05	0.01913526
ENSG00000225511	LINC00475	NA	92141298	92160114	+	NA	9	9	31	-1.79304596	0.0018476	0.18493969
ENSG00000181798	LINC00471	NA	231508426	231514339	-	151477	2	0	8	-6.033772917	0.00894141	0.44242407
ENSG00000138759	FRAS1	Fraser extracellular matrix complex subunit 1	78057570	78544269	+	80144	4	30	71	-1.262400304	0.00076235	0.10638227
ENSG00000142102	PGGHG	protein-glucosylgalactosylhydroxylase	289135	296107	+	80162	11	160	370	-1.231874053	6.46E-07	0.00079572
ENSG00000225556	C2CD4D	C2 calcium dependent domain containing 4D	151837819	151840557	-	100191040	1	1	14	-3.671943573	0.00141036	0.15455355
ENSG00000232762	AL355483.3	NA	53304536	53307462	+	NA	1	6	0	5.603454913	0.03361661	0.8324078
ENSG00000241081	AF111169.1	NA	76886377	76886750	-	NA	14	6	25	-2.059121978	0.00188767	0.18640307
ENSG000000002745	WNT16	Wnt family member 16	121325367	121341104	+	51384	7	6	19	-1.665440123	0.02114381	0.68177571
ENSG00000103742	IGDCC4	immunoglobulin superfamily DCC subclass member 4	65381464	65423072	-	57722	15	34	15	1.150958564	0.01970762	0.64839435
ENSG00000179715	PCED1B	PC-esterase domain containing 1B	47079603	47236662	+	91523	12	59	27	1.101149753	0.00459709	0.30691904
ENSG00000212259	RNU6-308P	NA	95521369	95521475	+	NA	5	6	0	5.603454913	0.03361661	0.8324078
ENSG00000119698	PPP4R4	protein phosphatase 4 regulatory subunit 4	94146128	94279735	+	57718	14	45	9	2.283147523	9.16E-06	0.00534986
ENSG00000162706	CADM3	cell adhesion molecule 3	159171609	159203313	+	57863	1	8	1	2.830829713	0.04333145	0.95821355
ENSG00000175161	CADM2	cell adhesion molecule 2	84958981	86074429	+	253559	3	19	7	1.401702691	0.03970312	0.92328994
ENSG00000253669	GASAL1	NA	102805517	102809971	+	NA	8	15	54	-1.862310937	4.43E-05	0.01792154
ENSG00000230510	PPP5D1	PPP5 tetratricopeptide repeat domain containing 1	46480796	46601200	-	100506012	19	2	20	-3.26577688	0.00024375	0.05305877
ENSG0000029534	ANK1	ankyrin 1	41653220	41896762	-	286	8	12	27	-1.184539242	0.03830181	0.90546426
ENSG00000270427	NRBF2P5	NA	5776071	5776858	+	NA	10	6	0	5.603454913	0.03361661	0.8324078
ENSG00000231167	YBX1P2	NA	105582258	105583256	-	NA	7	5	24	-2.257636854	0.00117769	0.14474367
ENSG00000131620	ANO1	anoctamin 1	70078302	70189528	+	55107	11	0	8	-6.033772917	0.00894141	0.44242407
ENSG00000183171	BX322650.1	NA	150114378	150116520	+	NA	X	9	1	2.998267012	0.02463495	0.74193929
ENSG00000248927	AC114284.1	NA	120781218	120790778	+	NA	5	23	50	-1.13905878	0.00834948	0.44242407
ENSG00000273226	AL391834.2	NA	19375451	19375996	+	NA	9	17	1	3.906400717	0.00025279	0.0532408
ENSG00000243742	RPLP0P2	NA	61615036	61639449	+	113157	11	69	17	1.990135717	1.55E-06	0.00149041
ENSG00000270300	PHACTR2P1	NA	119793589	119816642	+	NA	10	0	9	-6.201249115	0.00464266	0.30691904
ENSG00000204187	LINC00619	NA	43845306	43850622	+	NA	10	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000189001	SBSN	suprabasin	35523367	35528351	-	374897	19	13	1	3.522639813	0.00250381	0.21723364
ENSG00000131480	AOC2	amine oxidase, copper containing 2	42844600	42850707	+	314	17	30	10	1.55015669	0.00510013	0.33098241
ENSG00000214676	RPL9P16	NA	168755816	168756382	+	NA	4	6	0	5.603454913	0.03361661	0.8324078
ENSG00000254990	AP001781.2	NA	111768668	111778350	-	NA	11	1	9	-3.041533225	0.02463495	0.74193929
ENSG00000260941	LINC00622	NA	119597702	119599271	-	644242	1	13	1	3.522639813	0.00250381	0.21723364
ENSG00000283103	AC010642.2	NA	58310449	58326933	-	NA	19	28	12	1.190965615	0.02851606	0.80657876
ENSG00000214353	VAC14-AS1	NA	70755098	70773251	+	100130894	16	0	9	-6.201249115	0.00464266	0.30691904
ENSG00000188517	COL25A1	collagen type XXV alpha 1 chain	108810721	109302657	-	84570	4	37	12	1.591491116	0.00164801	0.17322399
ENSG00000248719	AC021127.1	NA	80183280	80190169	-	NA	4	6	0	5.603454913	0.03361661	0.8324078
ENSG00000019102	VSIG2	V-set and immunoglobulin domain containing 2	124747472	124752238	-	23584	11	7	0	5.821602045	0.01729787	0.5958645
ENSG00000236194	AC099811.1	NA	42270517	42272683	-	NA	17	16	0	6.999826336	5.33E-05	0.0193511
ENSG00000275964	AL355001.2	NA	19863858	19865048	+	NA	13	1	12	-3.451660612	0.00444385	0.30691904
ENSG00000215447	BX322557.1	NA	45288052	45291738	+	NA	21	283	114	1.287769074	7.26E-07	0.00087482
ENSG00000201700	SNORD113-3	NA	100929919	100929990	+	767563	14	14	3	2.153813442	0.01657597	0.5958645
ENSG00000130489	SCO2	SCO2, cytochrome c oxidase assembly protein	50523568	50525606	-	9997	22	13	28	-1.122447476	0.04444927	0.96117306
ENSG00000284194	SCO2	SCO2, cytochrome c oxidase assembly protein	50523568	50526439	-							

ENSG00000168955	TM4SF20	transmembrane 4 L six family member 20	227362156	227381995	-	79853	2	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000250644	AC068580.4	novel protein	1734821	1763954	-	NA	11	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000280604	AJ239328.1	NA	45914296	45919483	+	NA	21	42	9	2.183899553	2.91E-05	0.01270536
ENSG00000251455	AC092611.1	NA	151674483	151677893	+	NA	4	1	8	-2.874057027	0.04333145	0.95821355
ENSG00000267710	EDDM13	epididymal protein 13	56272769	56310450	+	100506374	19	4	14	-1.798406149	0.03847433	0.90546426
ENSG00000228434	AC004951.1	NA	44004046	44007866	-	NA	7	9	1	2.998267012	0.02463495	0.74193929
ENSG00000109321	AREG	amphiregulin	74445134	74455009	+	374	4	340	167	1.002077419	4.85E-05	0.01913526
ENSG00000267345	AC010632.1	NA	37075113	37078605	-	NA	19	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000282556	AC068733.3	NA	6323554	6324023	+	101927825	11	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000188761	BCL2L15	BCL2 like 15	113878168	113887547	-	440603	1	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000227925	LINC01655	NA	221827666	221840666	-	101929771	1	9	0	6.178492236	0.00464266	0.30691904
ENSG00000261584	AL513548.1	NA	26686241	26687964	+	NA	6	0	13	-6.72571824	0.00035249	0.06443635
ENSG00000278727	AC000403.1	NA	76887551	76891135	-	NA	13	29	10	1.501455142	0.00718023	0.41003926
ENSG00000212128	TAS2R13	taste 2 receptor member 13	10907926	10909562	-	50838	12	1	10	-3.191574278	0.01395124	0.57317426
ENSG00000268521	VN1R83P	NA	21289554	21289998	-	NA	19	8	1	2.830829713	0.04333145	0.95821355
ENSG00000273680	AC009318.2	NA	29332733	29333383	-	NA	12	11	35	-1.68159516	0.00172226	0.1783814
ENSG00000222640	RNU2-51P	NA	70360892	70361088	+	NA	14	6	0	5.603454913	0.03361661	0.8324078
ENSG00000124743	KLHL31	kelch like family member 31	53647901	53665708	-	401265	6	8	0	6.011054937	0.00894141	0.44242407
ENSG00000223813	AC007255.1	NA	29514225	29563670	-	NA	7	11	27	-1.308707964	0.02384497	0.73821694
ENSG00000268357	VN1R81P	NA	21123817	21124188	+	NA	19	11	2	2.366006025	0.02678048	0.77212427
ENSG00000269918	AF131215.6	NA	11104691	11106704	-	NA	8	9	38	-2.085719968	0.00013459	0.03613751
ENSG00000271941	AC104184.1	NA	43346923	43347643	-	NA	3	6	0	5.603454913	0.03361661	0.8324078
ENSG00000102048	ASB9	ankyrin repeat and SOCS box containing 9	15235288	15270467	-	140462	X	0	12	-6.611376502	0.00066721	0.09763777
ENSG00000164512	ANKRD55	ankyrin repeat domain 55	56099678	56233359	-	79722	5	2	10	-2.27463923	0.04430615	0.96117306
ENSG00000186352	ANKRD37	ankyrin repeat domain 37	185396021	185400628	+	353322	4	45	92	-1.052691113	0.00179949	0.18369351
ENSG00000198483	ANKRD35	ankyrin repeat domain 35	145886560	145885866	-	148741	1	97	247	-1.370378625	2.93E-07	0.00040547
ENSG00000253658	LINC01592	NA	68911803	69104190	-	100505718	8	12	1	3.408316198	0.00444385	0.30691904
ENSG00000276644	DACH1	dachshund family transcription factor 1	71437966	71867192	-	1602	13	12	2	2.490174747	0.01608407	0.5958645
ENSG00000115290	GRB14	growth factor receptor bound protein 14	164492812	164621848	-	2888	2	90	32	1.465218849	3.63E-05	0.01513292
ENSG00000145700	ANKRD31	ankyrin repeat domain 31	75068275	75236878	-	256006	5	2	11	-2.410535462	0.02678048	0.77212427
ENSG00000271075	AL139317.4	NA	52871458	52872217	+	NA	14	10	0	6.328502073	0.00242129	0.21443156
ENSG00000261008	LINC01572	NA	72283301	72665009	-	101927957	16	26	4	2.640296894	0.00016562	0.04097549
ENSG00000282021	AC100810.3	NA	1758208	1760447	-	NA	8	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000180861	LINC01559	NA	13731089	13387167	-	283422	12	7	0	5.821602045	0.01729787	0.5958645
ENSG00000118515	SGK1	serum/glucocorticoid regulated kinase 1	134169246	134318112	-	6446	6	940	457	1.017195619	4.61E-06	0.00318851
ENSG00000213199	ASIC3	acid sensing ion channel subunit 3	151048292	151052756	+	9311	7	0	15	-6.930350488	9.96E-05	0.02829695
ENSG00000246477	AF131216.1	NA	11315859	11325429	-	NA	8	31	11	1.461371517	0.00660661	0.38704964
ENSG00000255020	AF131216.3	NA	11345748	11347502	-	100129129	8	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000280273	AF131216.4	NA	11283481	11285068	-	NA	8	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000162772	ATF3	activating transcription factor 3	212565334	212620777	+	467	1	391	132	1.542667943	8.06E-10	2.28E-06
ENSG00000117242	PINK1-AS	NA	20642657	20652193	-	100861548	1	25	54	-1.130160428	0.00690226	0.39902814
ENSG00000259030	FPGT-TNNI3K	FPGT-TNNI3K readthrough	74198235	74543982	+	100526835	1	9	23	-1.364409461	0.03063511	0.8324078
ENSG00000129946	SHC2	SHC adaptor protein 2	416583	460996	-	25759	19	35	72	-1.061013081	0.00364911	0.28542107
ENSG00000148082	SHC3	SHC adaptor protein 3	89005771	89178767	-	53358	9	454	213	1.068326628	7.82E-06	0.00481643
ENSG00000205639	MFSD2B	major facilitator superfamily domain containing 2B	24010081	24063321	+	388931	2	8	24	-1.59292492	0.01209816	0.53423305
ENSG00000168389	MFSD2A	major facilitator superfamily domain containing 2A	39955112	39969968	+	84879	1	116	56	1.025928323	0.00122568	0.14621903
ENSG00000223458	LMO7DN-IT1	NA	75876886	75881127	+	104326189	13	0	10	-6.351290168	0.00242129	0.21443156
ENSG00000188878	FBF1	Fas binding factor 1	75909574	75941140	-	85302	17	17	39	-1.214938643	0.01197492	0.53210919
ENSG00000228889	UBAC2-AS1	NA	99196377	99200710	-	100289373	13	9	23	-1.364409461	0.03063511	0.8324078
ENSG00000259985	AC017100.1	NA	31685655	31686823	+	NA	18	36	4	3.107848165	1.51E-06	0.00149041
ENSG00000102796	DHRS12	dehydrogenase/reductase 12	51767993	51804157	-	79758	13	31	63	-1.043141412	0.00764158	0.42552295
ENSG00000167536	DHRS13	dehydrogenase/reductase 13	28897781	28903071	-	147015	17	22	54	-1.313598787	0.00206394	0.19819111
ENSG00000162997	PRORS1P	NA	55282319	55284522	+	344405	2	13	33	-1.358522574	0.01030639	0.47399509
ENSG00000185960	SHOX	short stature homeobox	624344	659411	+	6473	X	25	9	1.438369624	0.01560431	0.5958645
ENSG00000140876	NUDT7	nudix hydrolase 7	77722492	77742260	+	283927	16	15	3	2.252490968	0.0103193	0.47399509
ENSG00000167799	NUDT8	nudix hydrolase 8	67627938	67629930	-	254552	11	10	29	-1.547217154	0.00718023	0.41003926
ENSG00000253878	AC087752.3	NA	94950037	94951396	+	NA	8	15	2	2.809101555	0.00339444	0.27265605
ENSG00000262115	AC027601.2	NA	81197393	81200288	+	NA	17	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000259933	AC009065.2	NA	2091436	2095433	+	105371049	16	1	15	-3.770634598	0.00079462	0.10718826
ENSG00000267260	AC020928.1	NA	36773153	36777078	+	NA	19	6	0	5.603454913	0.03361661	0.8324078
ENSG00000225264	ZNRF2P2	NA	29598795	29685255	-	NA	7	6	0	5.603454913	0.03361661	0.8324078
ENSG00000232712	KIZ-AS1	NA	21154023	21218289	-	101929591	20	1	11	-3.32747051	0.00788025	0.42560136
ENSG00000282777	POU2F2	POU class 2 homeobox 2	42086110	42196585	-	5452	19	754	309	1.26354698	3.33E-08	6.98E-05
ENSG00000242510	NDUFB4P1	NA	67513940	67514320	+	NA	3	2	15	-2.85369955	0.00339444	0.27265605
ENSG00000278922	AC002310.6	NA	30526918	30528294	+	NA	16	9	1	2.998267012	0.02463495	0.74193929
ENSG00000149596	JPH2	junctophilin 2	44111695	44187578	-	57158	20	15	4	1.85184114	0.02504257	0.74870021
ENSG00000229635	AL137159.1	NA	93384487	93384998	-	NA	1	7	0	5.821602045	0.01729787	0.5958645
ENSG00000276571	AC002550.2	NA	19694035	19694428	-	NA	16	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000279058	AGAP14P	NA	46337224	46358714	+	NA	10	16	5	1.630973135	0.03470407	0.84532906
ENSG00000228502	EEF1A1P11	NA	96446930	96448318	+	NA	1	12	1	-3.451660612	0.00444385	0.30691904
ENSG00000249855	EEF1A1P19	NA	43495073	43496454	-	NA	5	0	9	-6.201249115	0.00464266	0.30691904
ENSG00000266094	RASSF5	Ras association domain family member 5	206507530	206589448	+	83593	1	12	31	-1.382996774	0.01141827	0.51219505
ENSG00000251600	AC139713.2	NA	143559457	144188367	+	101927636	4	3	15	-2.297523269	0.0103193	0.47399509
ENSG00000267272	LINC01140	NA	87129765	87169198	+	339524	1	0	10	-6.351290168	0.00242129	0.21443156
ENSG00000099958	DERL3	derlin 3	23834503	23839128	-	91319	22	12	3	1.93356416	0.04197539	0.95430001
ENSG00000280744	LINC01173	NA	234682668	234717764	+	106144537	2	15	0	6.90746823		

ENSG00000188396	TCTEX1D4	Tctex1 domain containing 4	44805913	44806675	-	343521	1	6	0	5.603454913	0.03361661	0.8324078
ENSG00000182057	OGFRP1	NA	42269753	42275196	+	388906	22	14	3	2.153813442	0.01657597	0.5958645
ENSG00000280020	AC116407.3	NA	32178946	32180074	-	NA	17	8	0	6.011054937	0.00894141	0.44242407
ENSG00000140675	SLC5A2	solute carrier family 5 member 2	31483002	31490860	+	6524	16	16	4	1.944199246	0.0161862	0.5958645
ENSG00000260588	AC027702.1	NA	41828165	41829934	-	NA	8	22	4	2.400553291	0.00106861	0.13364727
ENSG00000272156	AC008280.3	NA	54082554	54085066	+	NA	2	9	1	2.998267012	0.02463495	0.74193929
ENSG00000241489	AC244197.3	novel transcript	149482543	149533935	-	NA	X	7	0	5.821602045	0.01729787	0.5958645
ENSG00000204531	POU5F1	POU class 5 homeobox 1	31164337	31180731	-	5460	6	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000240970	RPL23AP64	NA	119003012	119003446	-	NA	11	16	3	2.344849074	0.00639309	0.38046285
ENSG00000276404	MIR6835	NA	34240673	34240736	+	102465502	6	9	0	6.178492236	0.00464266	0.30691904
ENSG00000276334	AL133243.2	NA	32521927	32523547	+	NA	2	13	33	-1.358522574	0.01030639	0.47399509
ENSG00000214535	RPS15AP1	NA	21166206	21166596	-	NA	20	7	0	5.821602045	0.01729787	0.5958645
ENSG00000160097	FNDC5	fibronectin type III domain containing 5	32862268	32872482	-	252995	1	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000276926	MIR6797	NA	41869627	41869698	+	102465478	19	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000172346	CSDC2	cold shock domain containing C2	41560763	41577741	+	27254	22	11	39	-1.837191884	0.00043	0.07427378
ENSG00000226833	AC092164.1	NA	28708953	28736205	-	100505774	2	1	9	-3.041533225	0.02463495	0.74193929
ENSG00000223571	DHRX-IT1	NA	2334295	2336410	-	NA	X	7	0	5.821602045	0.01729787	0.5958645
ENSG00000109610	SOD3	superoxide dismutase 3	24789912	24800842	+	6649	4	26	63	-1.295775345	0.00122608	0.14621903
ENSG00000280062	AL031719.1	NA	1530715	1533301	+	NA	16	10	2	2.230135398	0.04430615	0.96117306
ENSG00000177685	CRACR2B	calcium release activated channel regulator 2B	826144	831991	+	283229	11	18	5	1.799645102	0.01534811	0.5958645
ENSG00000137841	PLCB2	phospholipase C beta 2	40278176	40307935	-	5330	15	12	2	2.490174747	0.01608407	0.5958645
ENSG00000277283	AC004812.2	NA	120116907	120119000	+	NA	12	18	53	-1.574376179	0.00037825	0.06846609
ENSG00000258422	AL160191.1	NA	70187123	70230187	+	NA	14	6	0	5.603454913	0.03361661	0.8324078
ENSG00000181449	SOX2	SRY-box 2	181711924	181714436	+	6657	3	7	0	5.821602045	0.01729787	0.5958645
ENSG00000134532	SOX5	SRY-box 5	23529500	23951032	-	6660	12	24	9	1.379777349	0.02192594	0.70005671
ENSG00000260179	AL162741.1	NA	1249777	1251334	-	NA	1	6	0	5.603454913	0.03361661	0.8324078
ENSG00000228839	PIK3IP1-AS1	NA	31292499	31338021	+	101929760	22	1	10	-3.191574278	0.01395124	0.57317426
ENSG00000259672	AC087612.1	NA	63098870	63110403	+	NA	15	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000267632	AC067852.6	NA	42509784	42511519	+	NA	17	3	14	-2.198832243	0.01657597	0.5958645
ENSG00000207295	RNU6-851P	NA	38884560	38884666	-	NA	2	0	8	-6.033772917	0.00894141	0.44242407
ENSG00000280231	AL031719.2	NA	1553655	1554130	-	NA	16	7	0	5.821602045	0.01729787	0.5958645
ENSG00000259802	AC012640.2	NA	10352701	10353601	-	NA	5	14	4	1.753163615	0.03847433	0.90546426
ENSG00000250790	AC127070.3	NA	132911470	132914732	+	NA	12	0	14	-6.831659463	0.000187	0.04333935
ENSG00000278949	AC127070.5	NA	132865855	132867958	-	NA	12	1	10	-3.191574278	0.01395124	0.57317426
ENSG00000254910	AC136475.2	NA	310139	311141	-	NA	11	7	19	-1.447292991	0.03970312	0.92328994
ENSG00000246228	CASC8	NA	127289817	127482139	-	727677	8	51	25	1.001918003	0.01362799	0.57317426
ENSG00000244556	ODCP	NA	129028889	129030527	+	NA	7	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000132122	SPATA6	spermatogenesis associated 6	48295372	48472208	-	54558	1	87	180	-1.070888157	0.00012458	0.03393208
ENSG00000259370	AC103740.1	NA	62827675	62884034	-	105370854	15	11	2	2.366006025	0.02678048	0.77212427
ENSG00000280355	AL132656.4	NA	79681973	79684094	-	NA	10	41	17	1.240958023	0.00694453	0.39983963
ENSG00000259562	AC090607.2	NA	78290527	78291221	-	NA	15	22	4	2.400553291	0.00106861	0.13364727
ENSG00000280010	AP001350.2	NA	58627435	58628528	+	NA	11	16	4	1.944199246	0.0161862	0.5958645
ENSG00000258520	AL359317.1	NA	69239166	69260567	-	NA	14	12	0	6.588541422	0.00066721	0.09763777
ENSG00000273891	AL731566.1	NA	121965764	121967700	+	NA	10	10	1	3.148276849	0.01395124	0.57317426
ENSG00000123338	NCKAP1L	NCK associated protein 1 like	54497711	54548238	+	3071	12	6	0	5.603454913	0.03361661	0.8324078
ENSG00000100558	PLEK2	pleckstrin 2	67386983	67412200	-	26499	14	38	17	1.131682441	0.01564512	0.5958645
ENSG00000158428	CATIP	ciliogenesis associated TTC17 interacting protein	218356856	218368099	+	375307	2	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000203321	C9orf41-AS1	NA	74952968	74996293	+	NA	9	10	1	3.148276849	0.01395124	0.57317426
ENSG00000174640	SLCO2A1	solute carrier organic anion transporter family member 2A1	133932696	134052184	-	80111	3	37	87	-1.253713272	0.00034578	0.06443635
ENSG00000091106	NLRC4	NLR family CARD domain containing 4	32224453	32265854	-	58484	2	32	10	1.642888923	0.00254585	0.21987096
ENSG00000270681	AC095055.1	NA	151139991	151141103	+	NA	4	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000257740	AC073896.3	NA	56308868	56309449	+	NA	12	23	9	1.318704357	0.03063511	0.8324078
ENSG00000278075	AC114341.1	NA	79900555	79900903	-	NA	18	20	0	7.319498185	4.54E-06	0.00317398
ENSG00000235128	AC013474.1	NA	126679622	126680420	+	NA	2	6	0	5.603454913	0.03361661	0.8324078
ENSG00000144671	SLC22A14	solute carrier family 22 member 14	38282294	38318575	+	9389	3	13	1	3.522639813	0.00250381	0.21723364
ENSG00000162711	NLRP3	NLR family pyrin domain containing 3	247416156	247449108	+	114548	1	20	8	1.285725268	0.04895303	1
ENSG00000270765	GAS2L2	growth arrest specific 2 like 2	35744511	35752878	-	246176	17	3	20	-2.709600598	0.00091075	0.11726934
ENSG00000227992	AC108463.1	NA	111203964	111206215	-	NA	2	30	14	1.069787395	0.03879354	0.90953385
ENSG00000230499	AC108463.2	NA	111195963	111206494	+	NA	2	14	4	1.753163615	0.03847433	0.90546426
ENSG00000271590	AC108463.3	NA	111210995	111212476	-	NA	2	28	11	1.315155718	0.01741971	0.59776732
ENSG00000272505	AC104964.3	NA	10486807	10489666	+	NA	8	7	0	5.821602045	0.01729787	0.5958645
ENSG00000235209	AL022318.1	NA	38921227	38924708	+	NA	22	6	0	5.603454913	0.03361661	0.8324078
ENSG00000245248	USP2-AS1	NA	119381778	119526664	+	NA	11	0	12	-6.611376502	0.00066721	0.09763777
ENSG00000115657	ABCB6	ATP binding cassette subfamily B member 6 (Langereis blood group)	219209768	219218990	-	10058	2	22	9	1.254931265	0.04253884	0.95821355
ENSG00000005471	ABCB4	ATP binding cassette subfamily B member 4	87401697	87480435	-	5244	7	0	14	-6.831659463	0.000187	0.04333935
ENSG00000260231	JHDM1D-AS1	NA	140177261	140179640	+	100134229	7	18	38	-1.0957119	0.02339332	0.72981751
ENSG00000229598	PRDX3P1	NA	38722743	38723505	-	NA	22	11	1	3.284147477	0.00788025	0.42560136
ENSG00000121769	FABP3	fatty acid binding protein 3	31365625	31376850	-	2170	1	114	250	-1.155088941	1.06E-05	0.00579208
ENSG00000170323	FABP4	fatty acid binding protein 4	81478419	81483263	-	2167	8	28	76	-1.459519953	9.99E-05	0.02829695
ENSG00000232536	AL365436.2	NA	151540516	151561855	+	NA	1	0	8	-6.033772917	0.00894141	0.44242407
ENSG00000258384	AC068831.2	NA	90952239	90955225	-	NA	15	1	8	-2.874057027	0.04333145	0.95821355
ENSG00000136449	MYCBPAP	MYCBP associated protein	50508384	50531501	+	84073	17	7	0	5.821602045	0.01729787	0.5958645
ENSG00000037280	FLT4	fms related tyrosine kinase 4	180601506	180649624	-	2324	5	9	0	6.178492236	0.00464266	0.30691904
ENSG00000272579	AL136370.1	NA	193090866	193091556	-	NA	1	23	46	-1.019074865	0.02115784	0.68177571
ENSG00000276529	AP001505.2	NA	44978832	44979274	+	NA	21	35	8	2.089204112	0.00018469	0.04333935
ENSG00000113532	ST8SIA4	ST8 alpha-N-acetylneuraminidase alpha-2,8-sialyltransferase 4	100806935	100903266	-	7903	5	17	39	-1.214938643	0.01197492	0.53210919
ENSG00000175899												

ENSG00000160396	HIPK4	homeodomain interacting protein kinase 4	40379271	40390187	-	147746	19	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000104879	CKM	creatine kinase, M-type	45306414	45322977	-	1158	19	8	0	6.011054937	0.00894141	0.44242407
ENSG00000123689	GOS2	G0/G1 switch 2	209675420	209676388	+	50486	1	3596	1398	1.33987831	2.66E-10	8.38E-07
ENSG00000125740	FOSB	FosB proto-oncogene, AP-1 transcription factor subunit	45467995	45475179	+	2354	19	25	1	4.459393515	2.75E-06	0.00240045
ENSG00000186193	SAPCD2	suppressor APC domain containing 2	137062124	137070588	-	89958	9	16	35	-1.146141525	0.02294735	0.72307126
ENSG00000263823	AC009831.1	NA	31942575	31944156	+	NA	18	13	2	2.604498362	0.00961124	0.45874658
ENSG00000227210	AC079145.1	NA	19990217	20004210	+	NA	2	1	10	-3.191574278	0.01395124	0.57317426
ENSG00000215790	SLC35E2	solute carrier family 35 member E2A	1724838	1745992	-	9906	1	31	9	1.747308802	0.0018476	0.18493969
ENSG00000214820	MPRIIP1	NA	44579938	44581026	-	NA	3	11	1	3.284147477	0.00788025	0.42560136
ENSG00000279713	AC080038.3	NA	62679403	62681354	-	NA	17	18	6	1.542441316	0.0310526	0.8324078
ENSG00000140839	CLEC18B	C-type lectin domain family 18 member B	74408270	74421953	-	497190	16	0	16	-7.02272042	5.33E-05	0.0193511
ENSG00000187323	DCC	DCC netrin 1 receptor	52340172	53535903	+	1630	18	143	69	1.026954209	0.0005575	0.08847317
ENSG00000237892	KLF7-IT1	NA	207120884	207122044	-	NA	2	24	10	1.229736296	0.03709785	0.88907718
ENSG00000131044	TTL9	tubulin tyrosine ligase like 9	31870702	31944963	+	164395	20	6	0	5.603454913	0.03361661	0.8324078
ENSG00000280254	AC233723.2	NA	4787057	4789162	+	NA	17	4	18	-2.158158808	0.00664724	0.38704964
ENSG00000226393	IFNA20P	NA	21321300	21321827	+	NA	9	7	0	5.821602045	0.01729787	0.5958645
ENSG00000198569	SLC34A3	solute carrier family 34 member 3	137230757	137236554	+	142680	9	6	0	5.603454913	0.03361661	0.8324078
ENSG00000115257	PCSK4	proprotein convertase subtilisin/kexin type 4	1481428	1490752	-	54760	19	16	46	-1.539202002	0.00099317	0.12655611
ENSG00000266877	AC007923.4	NA	31583162	31637543	+	NA	17	0	8	-6.033772917	0.00894141	0.44242407
ENSG00000259275	AC087477.2	NA	96354237	96403803	+	NA	15	22	48	-1.144086886	0.00921389	0.44713426
ENSG00000123612	ACVR1C	activin A receptor type 1C	157526767	157629005	-	130399	2	16	2	2.90145966	0.00200946	0.19394578
ENSG00000100842	EFS	embryonal Fyn-associated substrate	23356402	23365752	-	10278	14	16	47	-1.570146372	0.00073512	0.10360291
ENSG00000135373	EHF	ETS homologous factor	34621093	34661057	+	26298	11	103	19	2.407878912	3.18E-10	9.49E-07
ENSG00000266967	AARSD1	alanyl-tRNA synthetase domain containing 1	42950526	42964498	-	80755	17	17	5	1.717772741	0.02315658	0.72522737
ENSG00000242198	AC008897.1	NA	75374463	75374809	+	NA	5	12	1	3.408316198	0.00444385	0.30691904
ENSG00000174326	SLC16A11	solute carrier family 16 member 11	7041630	7043923	-	162515	17	13	0	6.702865037	0.00035249	0.06443635
ENSG00000049540	ELN	elastin	74027789	74069907	+	2006	7	15	72	-2.27652188	1.24E-07	0.00020615
ENSG00000184441	AP001062.1	NA	44331234	44335851	+	NA	21	16	2	2.90145966	0.00200946	0.19394578
ENSG00000157554	ERG	ERG, ETS transcription factor	38380027	38661780	-	2078	21	16	4	1.944199246	0.0161862	0.5958645
ENSG00000204745	AC083899.1	NA	87125390	87196647	+	NA	2	14	31	-1.162747492	0.02943072	0.82585301
ENSG00000133134	BEX2	brain expressed X-linked 2	103309346	103311046	-	84707	X	32	10	1.642888923	0.00254585	0.21987096
ENSG00000235903	CPB2-AS1	NA	46052806	46113332	+	100509894	13	7	0	5.821602045	0.01729787	0.5958645
ENSG00000271225	BNIP3P4	NA	64810865	64811429	+	NA	9	7	0	5.821602045	0.01729787	0.5958645
ENSG00000106013	ANKRD7	ankyrin repeat domain 7	118214669	118496171	+	56311	7	1	9	-3.041533225	0.02463495	0.74193929
ENSG00000167604	NFKBID	NFKB inhibitor delta	35887653	35902303	-	84807	19	13	45	-1.804540628	0.00021875	0.04859947
ENSG00000143333	RGS16	regulator of G protein signaling 16	182598623	182604408	-	6004	1	18	0	7.168498303	1.54E-05	0.00773539
ENSG00000076344	RGS11	regulator of G protein signaling 11	268301	275980	-	8786	16	1	17	-3.94981458	0.00025279	0.0532408
ENSG00000284731	AC083906.6	NA	130002789	130003007	-	NA	3	10	0	6.328502073	0.00242129	0.21443156
ENSG00000272720	AL022322.1	NA	38090127	38091559	+	NA	22	7	28	-2.003710468	0.00128011	0.14621903
ENSG00000218537	MIF-AS1	NA	23894426	23898930	-	NA	22	0	10	-6.351290168	0.00242129	0.21443156
ENSG00000250909	AC138956.1	NA	176347941	176353584	+	NA	5	10	1	3.148276849	0.01395124	0.57317426
ENSG00000271452	AC005034.5	NA	75669989	75670454	+	NA	2	0	9	-6.201249115	0.00464266	0.30691904
ENSG00000198312	BMS1P9	NA	63055641	63059217	+	NA	9	8	0	6.011054937	0.00894141	0.44242407
ENSG00000270025	BMS1P7	NA	48050282	48060016	-	NA	10	10	0	6.328502073	0.00242129	0.21443156
ENSG00000157152	SYN2	synapsin II	12004402	12191400	+	6854	3	13	28	-1.122447476	0.04444927	0.6117306
ENSG00000119125	GDA	guanine deaminase	72114595	72257193	+	9615	9	69	30	1.175242124	0.00149312	0.15991045
ENSG00000248564	AC079140.1	NA	338097	338583	-	NA	4	6	0	5.603454913	0.03361661	0.8324078
ENSG00000241370	RPP21	ribonuclease P/MRP subunit p21	30345131	30346884	+	79897	6	7	30	-2.102822017	0.00057344	0.08974658
ENSG00000171772	SYCE1	synaptonemal complex central element protein 1	133553901	133569835	-	93426	10	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000254166	CASC19	NA	127072694	127227541	-	103164619	8	20	5	1.950644984	0.00662995	0.38704964
ENSG00000272168	CASC15	NA	21664772	22368328	+	NA	6	19	0	7.245972896	8.35E-06	0.00498038
ENSG00000233509	ZNF197-AS1	NA	44617128	44624797	-	100874094	3	6	0	5.603454913	0.03361661	0.8324078
ENSG00000278987	AL031009.1	NA	1688355	1690536	+	NA	16	34	14	1.249649589	0.01249671	0.54336246
ENSG00000160282	FTCD	formimidoyltransferase cyclodeaminase	46136262	46155567	-	10841	21	45	21	1.07200287	0.01301803	0.55621169
ENSG00000245685	FRG1-DT	NA	189780336	189940271	-	NA	4	0	8	-6.033772917	0.00894141	0.44242407
ENSG00000276116	FUT8-AS1	NA	65411170	65412690	-	NA	14	2	14	-2.755008525	0.00572059	0.35537281
ENSG00000189423	USP32P3	NA	20415547	20431008	+	NA	17	13	0	6.702865037	0.00035249	0.06443635
ENSG00000176912	TYMSOS	NA	641320	658340	-	NA	18	1	9	-3.041533225	0.02463495	0.74193929
ENSG00000135063	FAM189A2	family with sequence similarity 189 member A2	69324572	69392455	+	9413	9	7	20	-1.520825773	0.0276789	0.78920399
ENSG00000104059	FAM189A1	family with sequence similarity 189 member A1	29120254	29570723	-	23359	15	10	1	3.148276849	0.01395124	0.57317426
ENSG00000280083	AC079777.1	NA	191154118	191156070	-	NA	2	8	0	6.011054937	0.00894141	0.44242407
ENSG00000256060	TRAPPC2B	trafficking protein particle complex 2B	57363511	57365353	+	10597	19	27	54	-1.019665118	0.01381579	0.57317426
ENSG00000245105	A2M-AS1	NA	9065177	9068060	-	144571	12	0	11	-6.4871864	0.00126829	0.14621903
ENSG00000262903	AC027796.4	NA	3655621	3658092	-	NA	17	3	17	-2.47670325	0.00394482	0.29823018
ENSG00000261662	AL359752.1	NA	119909255	119910613	-	NA	1	10	33	-1.732885538	0.00179023	0.18307847
ENSG00000262924	AC008894.2	NA	16123661	16139892	-	NA	19	2	10	-2.27463923	0.04430615	0.96117306
ENSG00000219607	PPP1R3G	protein phosphatase 1 regulatory subunit 3G	5084581	5089487	+	648791	6	36	73	-1.040380435	0.00410751	0.30691904
ENSG00000162148	PPP1R32	protein phosphatase 1 regulatory subunit 32	61481120	61490931	+	220004	11	7	0	5.821602045	0.01729787	0.5958645
ENSG00000180071	ANKRD18A	ankyrin repeat domain 18A	38571358	38620660	-	253650	9	8	1	2.830829713	0.04333145	0.95821355
ENSG00000237749	AL034379.1	NA	37556247	37556499	+	NA	1	6	0	5.603454913	0.03361661	0.8324078
ENSG00000135604	STX11	syntaxin 11	144150526	144188370	+	8676	6	21	2	3.291090676	0.0001437	0.03734573
ENSG00000239462	AC091212.1	NA	98902424	99018562	+	NA	3	10	2	2.230135398	0.04430615	0.96117306
ENSG00000155980	KIF5A	kinesin family member 5A	57549998	57586632	+	3798	12	16	4	1.944199246	0.0161862	0.5958645
ENSG00000279342	AP000866.6	NA	124789240	124792818	-	NA	11	29	11	1.365558911	0.01266414	0.54624477
ENSG00000174951	FUT1	fucosyltransferase 1 (H blood group)	48748011	48755390	-	2523	19	7	0	5.821602045	0.01729787	0.5958645
ENSG00000204173	LRRC37A5P	NA	111602831	111631289	-	652972	9	6	17	-1.506075556	0.0452806	0.97505595
ENSG00000136244												

ENSG00000187775	DNAH17	dynein axonemal heavy chain 17	78423697	78577394	-	8632	17	41	17	1.240958023	0.00694453	0.39983963
ENSG00000283267	FAM237B	family with sequence similarity 237 member B	90316503	90321308	-	NA	7	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000270020	AC009108.3	NA	86520383	86523897	-	NA	16	3	14	-2.198832243	0.01657597	0.5958645
ENSG00000213261	EEF1B2P6	NA	131661952	131662624	-	NA	7	15	1	3.727243006	0.00079462	0.10718826
ENSG00000183691	NOG	noggin	56593699	56595590	+	9241	17	100	46	1.095154152	0.00083279	0.11101532
ENSG00000183010	SPNS2	sphingolipid transporter 2	4498838	4539035	+	124976	17	7	0	5.821602045	0.01729787	0.5958645
ENSG00000212242	RNA5SP219	NA	136630243	136630355	+	NA	6	0	9	-6.201249115	0.00464266	0.30691904
ENSG00000253559	OSGEPL1-AS1	NA	189762704	189765556	+	NA	2	11	2	2.366006025	0.02678048	0.77212427
ENSG00000124875	CXCL6	C-X-C motif chemokine ligand 6	73836497	73849064	+	6372	4	90	37	1.256518232	0.00028126	0.05673573
ENSG00000169429	CXCL8	C-X-C motif chemokine ligand 8	73740506	73743716	+	3576	4	1076	225	2.233982292	1.70E-21	4.83E-17
ENSG00000163431	LMOD1	leiomodrin 1	201896452	201946588	-	25802	1	18	83	-2.220277475	3.17E-08	6.91E-05
ENSG00000163739	CXCL1	C-X-C motif chemokine ligand 1	73869393	73871242	+	2919	4	436	120	1.837147632	3.63E-13	2.28E-09
ENSG00000163734	CXCL3	C-X-C motif chemokine ligand 3	74036589	74038807	-	2921	4	25	2	3.541252064	1.74E-05	0.00851439
ENSG00000163735	CXCL5	C-X-C motif chemokine ligand 5	73995642	73998779	-	6374	4	166	58	1.491999033	6.18E-07	0.0007781
ENSG00000202474	RNA5SP283	NA	62802320	62802438	-	NA	9	17	6	1.460568955	0.0452806	0.97505595
ENSG00000239908	RN7SL75P	NA	100102559	100102839	+	NA	9	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000272017	AL137784.2	NA	99568097	99569096	+	NA	6	6	0	5.603454913	0.03361661	0.8324078
ENSG00000267213	AC007773.1	NA	32390050	32405560	-	400684	19	8	21	-1.401338831	0.03484493	0.84532906
ENSG00000166153	DEPDC4	DEP domain containing 4	100203669	100267079	-	120863	12	17	4	2.030998852	0.01039936	0.47399509
ENSG00000217416	ISCA1P1	NA	62776877	62777263	-	NA	5	6	24	-2.000524945	0.00285251	0.23661633
ENSG00000241568	RN7SL338P	NA	35049271	35049563	+	NA	9	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000064886	CH13L2	chitinase 3 like 2	111200771	111243440	+	1117	1	23	8	1.486180555	0.01731168	0.5958645
ENSG00000133048	CH13L1	chitinase 3 like 1	203178931	203186749	-	1116	1	79	305	-1.97024488	3.52E-13	2.28E-09
ENSG00000167524	SGK494	uncharacterized serine/threonine-protein kinase Sgk494	28607964	28614200	-	124923	17	36	17	1.053944785	0.02640494	0.77212427
ENSG00000234546	LINC01759	NA	9182004	9196284	+	102724571	1	15	39	-1.394096355	0.00470459	0.31023948
ENSG00000151834	GABRA2	gamma-aminobutyric acid type A receptor alpha2 subunit	46248427	46475230	-	2555	4	37	6	2.576810631	1.15E-05	0.00615558
ENSG00000186297	GABRA5	gamma-aminobutyric acid type A receptor alpha5 subunit	26866363	26949207	+	2558	15	0	8	-6.033772917	0.00894141	0.44242407
ENSG00000025434	NR1H3	nuclear receptor subfamily 1 group H member 3	47248300	47269032	+	10062	11	95	235	-1.328583138	7.69E-07	0.00090737
ENSG00000275464	FP565260.1	periodic tryptophan protein 2 homolog	5130871	5154734	-	102724159	21	34	11	1.594122653	0.00242152	0.21443156
ENSG00000277117	FP565260.3	Homo sapiens ICOS ligand (LOC102723996), mRNA.	5022493	5040666	+	102723996	21	12	1	3.408316198	0.00444385	0.30691904
ENSG00000260647	AC127537.3	NA	18268080	18268828	+	NA	17	7	0	5.821602045	0.01729787	0.5958645
ENSG00000163666	HESX1	HESX homeobox 1	57197843	57226521	-	8820	3	4	15	-1.897097174	0.02504257	0.74870021
ENSG00000127578	WFIKKN1	WAP, follistatin/kazal, immunoglobulin, kunitz and netrin domain containing 1	629239	634116	+	117166	16	7	0	5.821602045	0.01729787	0.5958645
ENSG00000152082	MZT2B	mitotic spindle organizing protein 2B	130181737	130190729	+	80097	2	30	63	-1.09025247	0.00549808	0.34920796
ENSG00000144285	SCN1A	sodium voltage-gated channel alpha subunit 1	165984641	166149214	-	6323	2	18	60	-1.752953392	4.78E-05	0.01913526
ENSG00000166257	SCN3B	sodium voltage-gated channel beta subunit 3	123629187	123655244	-	55800	11	15	1	3.727243006	0.00079462	0.10718826
ENSG00000153253	SCN3A	sodium voltage-gated channel alpha subunit 3	165087522	165204067	-	6328	2	9	0	6.178492236	0.00464266	0.30691904
ENSG00000272235	AL590438.1	NA	3306636	3310096	-	NA	1	8	0	6.011054937	0.00894141	0.44242407
ENSG00000080573	COL5A3	collagen type V alpha 3 chain	9959561	10010471	-	50509	19	285	122	1.200179905	3.19E-06	0.00254447
ENSG00000225806	AL121917.1	NA	58863528	58888809	-	NA	20	11	2	2.366006025	0.02678048	0.77212427
ENSG00000140379	BCL2A1	BCL2 related protein A1	79960889	79971446	-	597	15	11	2	2.366006025	0.02678048	0.77212427
ENSG00000244218	RN7SL81P	NA	128761338	128761598	+	NA	7	19	4	2.190345806	0.00423033	0.30691904
ENSG00000143839	REN	renin	204154819	204190324	-	5972	1	3	33	-2.050332673	0.00040416	0.07164054
ENSG00000187010	RHD	Rh blood group D antigen	25272393	25330445	+	6007	1	25	59	-1.25763584	0.00212386	0.2022303
ENSG00000115468	EFHD1	EF-hand domain family member D1	232606057	232682781	+	80303	2	12	29	-1.287177805	0.02111849	0.68177571
ENSG00000258789	AL162171.1	NA	88551597	88552493	+	NA	14	8	1	2.830829713	0.04333145	0.95821355
ENSG00000154274	C4orf19	chromosome 4 open reading frame 19	37453941	37623495	+	55286	4	6	0	5.603454913	0.03361661	0.8324078
ENSG00000223855	HRAT92	NA	520391	525232	+	441307	7	2	15	-2.85369955	0.00339444	0.27265605
ENSG00000180245	RRH	retinal pigment epithelium-derived rhodopsin homolog	109827994	109844604	+	10692	4	0	10	-6.351290168	0.00242129	0.21443156
ENSG00000127152	BCL11B	B cell CLL/lymphoma 11B	99169287	99271524	-	64919	14	38	14	1.409553447	0.00377845	0.29183059
ENSG00000266217	CTSLP2	NA	47581211	47582321	-	NA	10	1	8	-2.874057027	0.04333145	0.95821355
ENSG00000280913	CTSLP2	NA	46753605	46759740	+	NA	10	1	8	-2.874057027	0.04333145	0.95821355
ENSG00000158089	GALNT14	polypeptide N-acetylgalactosaminyltransferase 14	30910467	31155202	-	79623	2	18	0	7.168498303	1.54E-05	0.00773539
ENSG00000169031	COL4A3	collagen type IV alpha 3 chain	227164565	227314792	+	1285	2	17	5	1.717772741	0.02315658	0.72522737
ENSG00000123358	NR4A1	nuclear receptor subfamily 4 group A member 1	52022832	52059507	+	3164	12	161	71	1.15670799	7.23E-05	0.0239478
ENSG00000172650	AGAP5	ArfGAP with GTPase domain, ankyrin repeat and PH domain 5	73674285	73698159	-	729092	10	10	0	6.328502073	0.00242129	0.21443156
ENSG00000260000	AL133338.1	NA	100881471	100882987	+	NA	6	44	12	1.840690206	0.00015341	0.03862803
ENSG00000138316	ADAMTS14	ADAM metalloproteinase with thrombospondin type 1 motif 14	70672803	70762441	+	140766	10	87	40	1.095564909	0.00143045	0.15585003
ENSG00000145808	ADAMTS19	ADAM metalloproteinase with thrombospondin type 1 motif 19	129460265	129738683	+	171019	5	2	14	-2.755008525	0.00572059	0.35537281
ENSG00000175793	SFN	stratifin	26863138	26864457	+	2810	1	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000261253	AC137932.2	NA	89321133	89325110	+	NA	16	4	18	-2.158158808	0.00664724	0.38704964
ENSG00000166670	MMP10	matrix metalloproteinase 10	102770503	102780628	-	4319	11	11	1	3.284147477	0.00788025	0.42560136
ENSG00000283828	AL137002.2	NA	113149432	113154002	-	NA	13	4	17	-2.076277155	0.01039936	0.47399509
ENSG00000251320	AC011352.3	NA	147887112	147887704	+	NA	5	11	25	-1.19820419	0.04395748	0.96117306
ENSG00000155926	SLA	Src like adaptor	133036724	133103054	-	6503	8	17	6	1.460568955	0.0452806	0.97505595
ENSG00000271826	PLS3-AS1	NA	115518182	115562731	-	101927352	X	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000205238	SPDYE2	speedy/RINGO cell cycle regulator family member E2	102551232	102562308	+	441273	7	26	11	1.208737584	0.03246835	0.8324078
ENSG00000136206	SPDYE1	speedy/RINGO cell cycle regulator family member E1	44000889	44010122	+	285955	7	13	3	2.047887775	0.0264707	0.77212427
ENSG00000134548	SPX	spexin hormone	21526307	21537377	+	80763	12	135	57	1.219063428	7.80E-05	0.02481651
ENSG00000267454	ZNF582-AS1	NA	56393656	56399172	+	386758	19	3	12	-1.978549282	0.04197539	0.95430001
ENSG00000274372	AC239803.3	NA	148021850	148025931	+	NA	1	0	8	-6.033772917	0.00894141	0.44242407
ENSG00000102003	SYP	synaptophysin	49187804	49200259	-	6855	X	15	0	6.90746823	9.96E-05	0.02829695
ENSG00000149970	CNKSR2	connector enhancer of kinase suppressor of Ras 2	21374418	21654695	+	22866	X	8	21	-1.401338831	0.03484493	0.84532906
ENSG00000163810	TGM4	transglutaminase 4	44874608	44914990	+	7047	3	13	2	2.604498362	0.00961124	0.45874658
ENSG00000184347	SLIT3	slit guidance ligand 3	168661733	169301129	-	6586	5	4	25	-2.629323576	0.0026452	0.054495

ENSG00000249465	RBMXP4	NA	109346326	109347459	-	NA	4	8	0	6.011054937	0.00894141	0.44242407
ENSG00000244627	Z98749.2	NA	38335762	38398929	-	NA	22	20	60	-1.60195351	0.00015269	0.03862803
ENSG00000250155	AC008957.1	NA	36666214	36725195	-	NA	5	28	11	1.315155718	0.01741971	0.59776732
ENSG00000257315	ZBED6	zinc finger BED-type containing 6	203795714	203854999	+	100381270	1	2	10	-2.27463923	0.04430615	0.96117306
ENSG00000250049	AC114316.2	NA	92082597	92479426	+	NA	5	0	10	-6.351290168	0.00242129	0.21443156
ENSG00000233098	CCDC144NL-AS1	NA	20868433	21002276	+	105369205	17	5	16	-1.676377416	0.03470407	0.84532906
ENSG00000229931	AL137003.1	NA	16761138	16762652	+	NA	6	1	16	-3.86300453	0.00044798	0.07572067
ENSG00000232531	AC027612.3	NA	91747940	91748986	-	NA	2	48	21	1.164860486	0.00619366	0.3744952
ENSG00000110799	VWF	von Willebrand factor	5948874	6124770	-	7450	12	12	1	3.408316198	0.00444385	0.30691904
ENSG00000261783	AC009054.2	NA	75379818	75381260	-	NA	16	1	9	-3.041533225	0.02463495	0.74193929
ENSG00000103067	ESRP2	epithelial splicing regulatory protein 2	68229111	68238102	-	80004	16	11	0	6.464372701	0.00126829	0.14621903
ENSG00000242876	RN7SL812P	NA	20481935	20482213	-	NA	22	11	0	6.464372701	0.00126829	0.14621903
ENSG00000280649	AC245100.8	NA	148458814	148459871	+	NA	1	13	3	2.047887775	0.0264707	0.77212427
ENSG00000253251	AC008560.1	shieldin complex subunit 3	65624765	65630891	+	NA	5	49	13	1.881206271	5.69E-05	0.02028441
ENSG00000103154	NECAB2	N-terminal EF-hand calcium binding protein 2	83968632	84002776	+	54550	16	8	0	6.011054937	0.00894141	0.44242407
ENSG00000261270	AC012181.3	NA	56940278	56941342	+	NA	16	0	9	-6.201249115	0.00464266	0.30691904
ENSG00000261114	AC012181.2	NA	56941028	56941726	+	NA	16	4	19	-2.235641721	0.00423033	0.30691904
ENSG00000280332	AC020917.4	NA	16356329	16358327	-	NA	19	6	18	-1.58795721	0.0310526	0.8324078
ENSG00000185883	ATP6V0C	ATPase H+ transporting V0 subunit c	2513870	2520218	+	527	16	1	12	-3.451660612	0.00444385	0.30691904
ENSG00000145244	CORIN	corin, serine peptidase	47593998	47838106	-	10699	4	22	77	-1.824510197	3.07E-06	0.00251754
ENSG00000255317	AP002833.2	NA	126992452	126995458	+	NA	11	12	0	6.588541422	0.00066721	0.09763777
ENSG00000114638	UPK1B	uroplakin 1B	119173517	119205153	+	7348	3	0	13	-6.72571824	0.00035249	0.06443635
ENSG00000105668	UPK1A	uroplakin 1A	35666516	35678483	+	11045	19	8	0	6.011054937	0.00894141	0.44242407
ENSG00000105650	PDE4C	phosphodiesterase 4C	18207961	18255419	-	5143	19	32	13	1.268460852	0.01393199	0.57317426
ENSG00000185527	PDE6G	phosphodiesterase 6G	81650459	81663112	-	5148	17	9	0	6.178492236	0.00464266	0.30691904
ENSG00000241679	AC018450.1	NA	143123362	143131893	+	NA	3	8	30	-1.913369125	0.00128926	0.14696732
ENSG00000236801	RPL24P8	NA	70217195	70217668	+	NA	9	9	23	-1.364409461	0.03063511	0.8324078
ENSG00000072163	LIMS2	LIM zinc finger domain containing 2	127638381	127681786	-	55679	2	7	28	-2.003710468	0.00128011	0.00221903
ENSG00000245614	DDX11-AS1	NA	31020763	31073847	-	100506660	12	14	1	3.62856548	0.00141036	0.15455355
ENSG00000182612	TSPAN10	tetraspanin 10	81637171	81648749	+	83882	17	26	59	-1.201330595	0.0031579	0.25742529
ENSG00000263370	AC104564.2	NA	29639627	29640825	+	NA	17	10	0	6.328502073	0.00242129	0.21443156
ENSG00000235907	AC115285.1	NA	33512008	33512743	-	NA	1	6	0	5.603454913	0.03361661	0.8324078
ENSG00000103528	SYT17	synaptotagmin 17	19167971	19268334	+	51760	16	8	1	2.830829713	0.04333145	0.95821355
ENSG00000248174	LINC02268	NA	174200398	174220398	-	101928509	4	6	0	5.603454913	0.03361661	0.8324078
ENSG00000273306	AC018690.1	NA	99405218	99405843	+	NA	2	26	10	1.344633815	0.01953014	0.64560355
ENSG00000259088	AL137779.2	NA	101796555	101810321	-	NA	14	7	0	5.821602045	0.01729787	0.5958645
ENSG00000279227	AC009303.4	NA	118014174	118015673	+	NA	2	15	3	2.252490968	0.0103193	0.47399509
ENSG00000265100	AC005332.1	NA	68246629	68247938	-	NA	17	0	14	-6.831659463	0.000187	0.04333935
ENSG00000219891	ZSCAN12P1	NA	28091154	28093664	+	NA	6	9	28	-1.646820278	0.00546398	0.34782195
ENSG00000256299	AC073912.2	NA	130810821	130812622	-	NA	12	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000219451	RPL23P8	NA	20827326	20827753	+	222901	7	0	8	-6.033772917	0.00894141	0.44242407
ENSG00000235635	AC016644.1	NA	56941307	56947152	+	NA	5	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000175287	PHYHD1	phytanoyl-CoA dioxygenase domain containing 1	128920895	128942041	+	254295	9	5	16	-1.676377416	0.03470407	0.84532906
ENSG00000065717	TLE2	transducin like enhancer of split 2	2997638	3047635	-	7089	19	24	92	-1.956061287	1.72E-07	0.00026403
ENSG00000221866	PLXNA4	plexin A4	132123332	132648688	-	91584	7	84	37	1.157126618	0.00095744	0.12285034
ENSG00000245812	LINC02202	NA	159100483	159117478	+	101927740	5	6	19	-1.665440123	0.02114381	0.68177571
ENSG00000171631	P2RY6	pyrimidinergic receptor P2Y6	73264505	73298617	+	5031	11	3	20	-2.709600598	0.00091075	0.11726934
ENSG00000175591	P2RY2	purinergic receptor P2Y2	73218298	73236352	+	5029	11	8	1	2.830829713	0.04333145	0.95821355
ENSG00000099957	P2RX6	purinergic receptor P2X 6	21009808	21028830	+	9127	22	2	26	-3.642235591	1.03E-05	0.00572633
ENSG00000095587	TLL2	tollid like 2	96364606	96513918	-	7093	10	8	1	2.830829713	0.04333145	0.95821355
ENSG00000174125	TLR1	toll like receptor 1	38790677	38856817	-	7096	4	22	8	1.422407463	0.02463569	0.74193929
ENSG00000205015	LINC02138	NA	89166383	89169147	+	400558	16	14	1	3.62856548	0.00141036	0.15455355
ENSG00000108947	EFNB3	ephrin B3	7705202	7711378	+	1949	17	23	0	-1.721299651	0.00903825	0.44449827
ENSG00000250198	LINC02199	NA	8839732	8881525	+	NA	5	0	8	-6.033772917	0.00894141	0.44242407
ENSG00000267216	AC020915.2	novel transcript	58278966	58315197	+	108903150	19	20	3	2.664520923	0.00091075	0.11726934
ENSG00000234945	GTF3C2-AS1	NA	27335535	27342599	+	100505624	2	6	0	5.603454913	0.03361661	0.8324078
ENSG00000162630	B3GALT2	beta-1,3-galactosyltransferase 2	193179045	193186654	-	8707	1	1	12	-3.451660612	0.00444385	0.30691904
ENSG00000172318	B3GALT1	beta-1,3-galactosyltransferase 1	167868948	167874041	+	8708	2	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000188869	TMC3	transmembrane channel like 3	81331217	81374213	-	342125	15	6	0	5.603454913	0.03361661	0.8324078
ENSG00000107518	ATRNL1	attractin like 1	115093365	115948992	+	26033	10	37	18	1.011455495	0.03006695	0.8324078
ENSG00000228709	LINC02575	NA	44485577	44490288	+	NA	21	8	23	-1.531846759	0.01731168	0.5958645
ENSG00000183778	B3GALT5	beta-1,3-galactosyltransferase 5	39556442	39673137	+	10317	21	25	8	1.605845822	0.00841274	0.44242407
ENSG00000259459	LINC02568	NA	63390136	63438320	+	NA	15	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000248869	LINC02511	NA	136796722	137212799	-	NA	4	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000251580	LINC02482	NA	6670725	6673830	-	105374366	4	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000226088	AL158839.1	NA	70359562	70360437	-	NA	1	0	16	-7.02272042	5.33E-05	0.0193511
ENSG00000284430	AC020912.1	NA	31100304	31147981	+	NA	19	73	29	1.305102962	0.00050882	0.08259904
ENSG00000140459	CYP11A1	cytochrome P450 family 11 subfamily A member 1	74337759	74367740	-	1583	15	5	29	-2.529376224	0.00012857	0.03468662
ENSG00000267510	AC011451.1	NA	9291515	9294482	+	NA	19	21	2	3.291090676	0.0001437	0.03734573
ENSG00000164674	SYTL3	synaptotagmin like 3	158650014	158764876	+	94120	6	58	25	1.187044479	0.00269915	0.22823959
ENSG00000268660	LETM1P2	NA	58044592	58046769	+	NA	19	8	0	6.011054937	0.00894141	0.44242407
ENSG00000272218	AC108865.2	NA	186892552	186892983	+	NA	4	0	9	-6.201249115	0.00464266	0.30691904
ENSG00000135903	PAX3	paired box 3	222199888	222298996	-	5077	2	1	12	-3.451660612	0.00444385	0.30691904
ENSG00000185432	METTL7A	methyltransferase like 7A	50923472	50932517	+	25840	12	78	158	-1.040254653	0.00027983	0.05673573
ENSG00000258947	TUBB3	tubulin beta 3 class III	89921392	89938761	+	10381	16	12	29	-1.287177805	0.02111849	0.68177571
ENSG00000248810	LINC02432	NA	141319450	141332618	-	NA	4	0	0	5.821602045	0.01729787	0.5958645
ENSG00000271538	LINC02427	NA	184506460	184537554	-	105377585	4	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000174292	TNK1	tyrosine kinase non receptor 1	7380534	7389774	+	8711	17	7	27	-1.951478619	0.00190528	0.18740233
ENSG00000226085	UQCRRF1P1	NA	39875289	39876108	+	NA	22	7	23	-1.721299651	0.00903825	0.44449827
ENSG00000160207	HSF2BP	heat shock transcription factor 2 binding protein	43529192	43659493	-	11077	21	51	20	1.322067076	0.00182998	0.18415151
ENSG00000277130	AC073569.3	NA	79818784	79819465	-	NA	12	2	10	-2.27463923	0.04430615	0.96117306
ENSG00000257259	LINC02388	NA	58565960	58781747	-	101927653	12	8	0	6.011054937	0.00894141	0.44242407
ENSG00000249129	SUDS3P1	NA	177971316	177972281	+	NA	5	0	15	-6.930350488	9.96E-05	0.02829695
ENSG00000256292	LINC02376	NA	127274467	127284283	-	NA	12	10	1			

ENSG00000187944	C2orf66	chromosome 2 open reading frame 66	196805002	196810276	-	401027	2	4	24	-2.570726543	0.00042196	0.07378461
ENSG00000168152	THAP9	THAP domain containing 9	82900684	82919969	+	79725	4	77	37	1.031792158	0.00379978	0.29249514
ENSG00000248371	LINC02056	NA	72574120	72660669	-	102477328	5	47	21	1.1345672	0.00795583	0.42845793
ENSG00000158220	ESY73	extended synaptotagmin 3	138434586	138481686	+	83850	3	2	12	-2.534725564	0.01608407	0.59586645
ENSG00000143452	HORMAD1	HORMA domain containing 1	150698060	150720888	-	84072	1	7	0	5.821602045	0.01729787	0.59586645
ENSG00000151789	ZNF385D	zinc finger protein 385D	21412222	22373321	-	79750	3	52	141	-1.459961255	2.65E-06	0.00238334
ENSG00000225554	AL359764.1	NA	241424292	241433492	+	NA	1	16	2	2.90145966	0.00200946	0.19394578
ENSG00000238212	LINC02096	NA	14834638	14900554	+	107984977	17	7	0	5.821602045	0.01729787	0.59586645
ENSG00000267662	AC025809.1	NA	31348881	31417794	+	NA	19	0	9	-6.201249115	0.00464266	0.30691904
ENSG00000137573	SULF1	sulfatase 1	69466624	69660915	+	23213	8	157	391	-1.338777084	6.26E-08	0.00011084
ENSG00000198028	ZNF560	zinc finger protein 560	9466507	9498607	-	147741	19	4	14	-1.798406149	0.03847433	0.90546426
ENSG00000256967	AC018653.3	NA	7129079	7131198	-	NA	12	8	20	-1.33137288	0.04895303	1
ENSG00000222024	AC004945.1	NA	79353410	79354392	+	NA	7	0	8	-6.033772917	0.00894141	0.44242407
ENSG00000235034	C19orf81	chromosome 19 open reading frame 81	50649445	50659310	+	342918	19	3	14	-2.198832243	0.01657597	0.59586645
ENSG00000108244	KRT23	keratin 23	40922696	40937634	-	25984	17	6	0	5.603454913	0.03361661	0.8324078
ENSG00000227329	AL139396.1	NA	53164391	53164557	-	728113	X	13	30	-1.221559025	0.02513009	0.75052463
ENSG00000131737	KRT34	keratin 34	41377650	41382403	-	3885	17	721	343	1.048448376	3.92E-06	0.00285493
ENSG00000280005	AC079298.2	NA	154261735	154262193	+	NA	4	17	2	2.988259266	0.00118753	0.14474367
ENSG00000176244	ACBD7	acyl-CoA binding domain containing 7	15077523	15088776	-	414149	10	29	10	1.501455142	0.00718023	0.41003926
ENSG00000278611	AC008567.3	NA	9538733	9539734	+	101928238	19	9	26	-1.540394293	0.01104842	0.49678423
ENSG00000264230	ANXA8L1	annexin A8 like 1	46375627	46537864	+	728113	10	12	2	2.490174747	0.01608407	0.59586645
ENSG00000188033	ZNF490	zinc finger protein 490	12577961	12640098	-	57474	19	5	21	-2.066050765	0.00432709	0.00491904
ENSG00000197714	ZNF460	zinc finger protein 460	57280051	57293569	+	10794	19	23	9	1.318704357	0.03063511	0.8324078
ENSG00000186364	NUDT17	nudix hydrolase 17	145845629	145848953	+	200035	1	13	32	-1.314297218	0.01393199	0.57317426
ENSG00000205835	GMNC	geminin coiled-coil domain containing	190852877	190892429	-	647309	3	7	0	5.821602045	0.01729787	0.59586645
ENSG00000228327	AL669831.1	NA	725885	778626	-	NA	1	50	17	1.52646638	0.00052461	0.0846774
ENSG00000258636	AL121821.1	NA	41587861	41604856	-	NA	14	28	13	1.076623878	0.04444927	0.96117306
ENSG00000257831	AL136418.1	NA	31248628	31302739	+	NA	14	12	1	3.408316198	0.00444385	0.30691904
ENSG00000197769	MAP1LC3C	microtubule associated protein 1 light chain 3 gamma	241995490	241999073	-	440738	1	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000105519	CAPS	calcyphosine	5911707	5915877	+	828	19	16	37	-1.226036537	0.0133442	0.56335009
ENSG00000128266	GNAZ	G protein subunit alpha z	23070361	23125037	+	2781	22	2	11	-2.410535462	0.02678048	0.77212427
ENSG00000248773	AC108727.1	NA	140972744	140973255	+	NA	3	10	1	3.148276849	0.01395124	0.57317426
ENSG00000227486	AL445472.1	NA	55908123	56015173	+	NA	X	0	7	-5.844270205	0.01729787	0.59586645
ENSG00000241962	AC079447.1	novel protein, C2orf15-MRPL30-novel lincRNA readthrough	99141485	99322741	+	NA	2	9	0	6.178492236	0.00464266	0.30691904
ENSG00000137285	TUBB2B	tubulin beta 2B class IIb	3224261	3231730	-	347733	6	7	32	-2.195560211	0.00025475	0.05325746
ENSG00000284154	MIR3605	NA	33332393	33332492	-	100500853	1	15	4	1.85184114	0.02504257	0.74870021
ENSG00000230623	AC104461.1	NA	200333193	200478293	+	NA	1	17	6	2.124057062	0.00081957	0.11002963
ENSG00000124713	GNMT	glycine N-methyltransferase	42960758	42963880	+	27232	6	13	1	3.522639813	0.00250381	0.21723364
ENSG00000228242	AC093495.1	NA	14144637	14165978	+	NA	3	66	13	2.309937135	1.65E-07	0.00026033
ENSG00000266533	MIR3619	NA	46091044	46091126	+	100500828	22	9	0	6.178492236	0.00464266	0.30691904
ENSG00000207983	MIR613	NA	12764649	12764743	+	693198	12	0	7	-5.844270205	0.01729787	0.59586645
ENSG00000230371	KARSP2	NA	113130416	113132054	+	NA	13	0	7	-5.844270205	0.01729787	0.59586645
ENSG00000243650	RN7SL834P	NA	230507101	230507386	+	NA	2	16	3	2.344849074	0.00639309	0.38046285
ENSG00000176973	FAM89B	family with sequence similarity 89 member B	65572349	65574198	+	23625	11	1	9	-3.041533225	0.02463495	0.74193929
ENSG00000217258	AC007249.1	NA	10452319	10455552	+	NA	2	0	7	-5.844270205	0.01729787	0.59586645
ENSG00000252562	RNU6-922P	NA	23613661	23613759	-	NA	3	6	0	5.603454913	0.03361661	0.8324078
ENSG00000168672	FAM84B	family with sequence similarity 84 member B	126552442	126558393	-	157638	8	17	5	1.717772741	0.02315658	0.72522737
ENSG00000170684	ZNF296	zinc finger protein 296	45071500	45076588	-	162979	19	41	15	1.420138004	0.00259342	0.22280582
ENSG00000249693	THEGL	theg spermatid protein like	56530609	56603507	+	100506564	4	13	0	6.702865037	0.00035249	0.06443635
ENSG00000163705	FANCD2OS	FANCD2 opposite strand	10081317	10108231	-	115795	3	0	7	-5.844270205	0.01729787	0.59586645
ENSG00000163827	LRRC2	leucine rich repeat containing 2	46515423	46580099	-	79442	3	44	14	1.620407245	0.00057702	0.09005816
ENSG00000275552	AC243965.2	NA	22595808	22598946	-	NA	14	1	10	-3.191574278	0.01395124	0.57317426
ENSG00000227632	AC018804.1	NA	130202312	130212628	+	NA	2	10	2	2.230135398	0.04430615	0.96117306
ENSG00000159917	ZNF235	zinc finger protein 235	44228729	44305046	-	9310	19	8	47	-2.55891777	1.55E-06	0.00149041
ENSG00000165804	ZNF219	zinc finger protein 219	21090046	21104722	-	51222	14	69	179	-1.396731253	1.17E-06	0.00127051
ENSG00000203434	AL353740.1	NA	108547975	108561815	-	NA	10	58	24	1.245641512	0.00178899	0.18307847
ENSG00000196407	THEM5	thioesterase superfamily member 5	151847263	151853697	-	284486	1	28	8	1.768569201	0.00275824	0.23217626
ENSG00000186354	C9orf47	NA	88990863	88996140	+	NA	9	21	6	1.763400365	0.00962572	0.45874658
ENSG00000108688	CCL7	C-C motif chemokine ligand 7	34270221	34272242	+	6354	17	0	12	-6.611376502	0.00066721	0.09763777
ENSG00000258725	PRC1-AS1	NA	90966345	90988624	+	100507118	15	0	7	-5.844270205	0.01729787	0.59586645
ENSG00000174137	FAM53A	family with sequence similarity 53 member A	1617915	1684302	-	152877	4	20	41	-1.053993119	0.0236259	0.73464625
ENSG00000173114	LRRN3	leucine rich repeat neuronal 3	111091006	111125454	+	54674	7	62	20	1.60320709	8.66E-05	0.02652668
ENSG00000270607	AC009549.1	NA	19710934	19712619	-	NA	11	104	33	1.629308578	2.28E-06	0.00208189
ENSG00000249456	AL731577.2	NA	124917143	124942881	+	NA	10	0	14	-6.831659463	0.000187	0.04333935
ENSG00000125810	CD93	CD93 molecule	23079349	23086340	-	22918	20	52	3	4.037463631	1.63E-10	5.78E-07
ENSG00000247595	SPTY2D1OS	SPTY2D1 opposite strand	18588781	18610255	+	100506540	11	2	15	-2.85369955	0.00339444	0.27265605
ENSG00000212240	RNU6-930P	NA	28915645	28915744	+	NA	6	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000225891	AL513365.2	NA	26462756	26467282	-	NA	1	7	0	5.821602045	0.01729787	0.59586645
ENSG00000115286	NDUFS7	NADH:ubiquinone oxidoreductase core subunit S7	1383527	1395589	+	374291	19	23	3	2.86497621	0.000207	0.04672245
ENSG00000219470	AL355802.1	NA	43538822	43539703	-	NA	6	1	8	-2.874057027	0.04333145	0.95821355
ENSG00000231760	AL355312.2	NA	149796151	149826294	-	NA	6	4	15	-1.897097174	0.02504257	0.74870021
ENSG00000135077	HAVCR2	hepatitis A virus cellular receptor 2	157085832	157142869	-	84868	5	0	9	-6.201249115	0.00464266	0.30691904
ENSG00000205464	ATP6AP1L	ATPase H+ transporting accessory protein 1 like	82279462	82386977	+	92270	5	71	31	1.169276576	0.00173673	0.17955239
ENSG00000277149	TYW1B	tRNA-yW synthesizing protein 1 homolog B	72558744	72828198	-	441250	7	92	43	1.072044409	0.00142613	0.15567916
ENSG00000113361	CDH6	cadherin 6	31193750	31329146	+	1004	5	51	116	-1.20661007	0.0001616	0.04050968
ENSG00000279086	AC073130.3	NA	116209234									

ENSG00000161509	GRIN2C	glutamate ionotropic receptor NMDA type subunit 2C	74842023	74861504	-	2905	17	2	11	-2.410535462	0.02678048	0.77212427
ENSG00000105464	GRIN2D	glutamate ionotropic receptor NMDA type subunit 2D	48394875	48444931	+	2906	19	26	53	-1.046950499	0.01230527	0.53917642
ENSG00000198785	GRIN3A	glutamate ionotropic receptor NMDA type subunit 3A	101569353	101738580	-	116443	9	8	0	6.011054937	0.00894141	0.44242407
ENSG00000164761	TNFRSF11B	TNF receptor superfamily member 11b	118923557	118952200	-	4982	8	100	197	-1.000359735	0.00024335	0.05305877
ENSG0000007516	BAIAP3	BAI1 associated protein 3	1333601	1349441	+	8938	16	3	14	-2.198832243	0.01657597	0.5958645
ENSG00000159958	TNFRSF13C	TNF receptor superfamily member 13C	41922023	41926818	-	115650	22	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000207110	RNU1-106P	NA	127999131	127999294	+	NA	8	8	11	3.284147477	0.00788025	0.42560136
ENSG00000280434	AL031595.3	NA	44139365	44153626	+	NA	22	5	18	-1.845069119	0.01534811	0.5958645
ENSG00000232118	BACH1-AS1	NA	29370019	29376339	-	NA	21	8	0	6.011054937	0.00894141	0.44242407
ENSG00000226124	FTCDNL1	formiminotransferase cyclodeaminase N-terminal like	199760544	199851173	-	348751	2	39	9	2.077316244	9.19E-05	0.0277068
ENSG00000241990	PRR34-AS1	NA	46053705	46057210	+	NA	22	3	13	-2.09289102	0.0264707	0.77212427
ENSG00000100288	CHKB	choline kinase beta	50578949	50601455	-	1120	22	20	3	2.664520923	0.00091075	0.11726934
ENSG00000140465	CYP1A1	NA	74719542	74725610	-	1543	15	27	9	1.548864934	0.00778622	0.42560136
ENSG00000106069	CHN2	chimerin 2	29122274	29514328	+	1124	7	3	31	-3.338710976	3.93E-06	0.00285493
ENSG00000145428	RNF175	ring finger protein 175	153710125	153760235	-	285533	4	23	55	-1.276237809	0.00246665	0.2166637
ENSG00000259946	BX005019.1	NA	97967005	97968814	-	NA	1	0	13	-6.72571824	0.00035249	0.06443635
ENSG00000151533	CCDC88C	coiled-coil domain containing 88C	91271323	91417844	-	440193	14	0	12	-6.611376502	0.00066721	0.09763777
ENSG00000176383	B3GNT4	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 4	122203543	122208952	+	79369	12	1	11	-3.32747051	0.00788025	0.42560136
ENSG00000278384	AL354822.1	NA	51867	54893	-	NA	GL000218.1	8	0	6.011054937	0.00894141	0.44242407
ENSG00000180336	MEIOC	meiosis specific with coiled-coil domain	44656404	44690308	+	284071	17	10	31	-1.643036123	0.00360939	0.28440855
ENSG00000267257	AC105105.1	NA	58535415	58538552	+	NA	18	10	0	6.328502073	0.00242129	0.21443156
ENSG00000181350	LRRC75A	leucine rich repeat containing 75A	16441577	16492153	-	388341	17	8	21	-1.401338831	0.03484493	0.084532906
ENSG00000173641	HSPB7	heat shock protein family B (small) member 7	16014028	16019594	-	27129	1	132	336	-1.370152114	6.25E-08	0.00011084
ENSG00000170276	HSPB2	heat shock protein family B (small) member 2	111912242	111914093	+	3316	11	7	0	5.821602045	0.01729787	0.5958645
ENSG00000273828	AL133227.1	NA	46364551	46390885	+	NA	20	7	0	5.821602045	0.01729787	0.5958645
ENSG00000100121	GGTLC2	gamma-glutamyltransferase light chain 2	22644475	22647903	+	91227	22	6	0	5.603454913	0.03361661	0.8324078
ENSG00000228748	AL450306.1	NA	77782866	77793176	+	NA	10	6	0	5.603454913	0.03361661	0.8324078
ENSG00000185155	MIXL1	Mix paired-like homeobox	226223618	226227054	+	83881	1	0	12	-6.611376502	0.00066721	0.09763777
ENSG00000114737	CISH	cytokine inducible SH2 containing protein	50606490	50611831	-	1154	3	55	110	-1.02139705	0.00137134	0.15384832
ENSG00000268713	AC005261.4	NA	57261354	57262738	+	NA	19	18	37	-1.05736457	0.03006695	0.8324078
ENSG00000083807	SL27A5	solute carrier family 27 member 5	58479512	58512413	-	10998	19	21	57	-1.458150355	0.00058838	0.09152773
ENSG00000152580	IGSF10	immunoglobulin superfamily member 10	151425384	151458709	-	285313	3	33	12	1.427025235	0.00607118	0.37185167
ENSG00000136167	LCP1	lymphocyte cytosolic protein 1	46125920	46211871	-	3936	13	102	48	1.062448777	0.00105731	0.13311497
ENSG00000130810	PPAN	peter pan homolog (Drosophila)	10106289	10111634	+	56342	19	19	46	-1.293055441	0.00441553	0.30691904
ENSG00000154864	PIEZO2	piezo type mechanosensitive ion channel component 2	10666483	11148762	-	63895	18	31	3	3.293580654	3.93E-06	0.00285493
ENSG00000267506	AC021683.2	NA	77546940	77563243	+	NA	17	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000274954	AC090971.5	NA	51833134	51833426	+	NA	15	9	0	6.178492236	0.00464266	0.30691904
ENSG00000281344	HELLPAR	NA	102197585	102402596	+	NA	12	23	8	1.486180555	0.01731168	0.5958645
ENSG00000163975	MELTF	melanotransferrin	196988621	197029816	-	4241	3	9	24	-1.425487622	0.02192594	0.70005671
ENSG00000267309	AC092295.2	NA	36489649	36491040	+	728752	19	33	12	1.427025235	0.00607118	0.37185167
ENSG00000260698	AL591848.3	NA	246682108	246685075	+	NA	1	0	9	-6.201249115	0.00464266	0.30691904
ENSG00000250220	AC053527.1	NA	73259209	73317953	+	NA	4	11	2	2.366006025	0.02678048	0.77212427
ENSG00000235700	CYCSF52	NA	157128362	157128671	+	360155	1	9	1	2.998267012	0.02463495	0.74193929
ENSG00000250064	AC097480.1	NA	28435449	28600275	+	NA	4	13	3	2.047887775	0.0264707	0.77212427
ENSG00000237017	AC245052.4	NA	54119511	54125343	-	NA	19	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000260285	AL133367.1	NA	103525010	103529072	-	NA	14	1	14	-3.671943573	0.00141036	0.15455355
ENSG00000165568	AKR1E2	aldo-keto reductase family 1 member E2	4786629	4848062	+	83592	10	9	22	-1.300630732	0.04253884	0.95821355
ENSG00000236404	VLDLR-AS1	NA	2422702	2643359	-	401491	9	20	7	1.47522798	0.0276789	0.78920399
ENSG00000165949	IFI27	interferon alpha inducible protein 27	94104836	94116698	+	3429	14	189	66	1.493028853	2.42E-07	0.00035158
ENSG00000116690	PRG4	proteoglycan 4	186296279	186314562	+	10216	1	8	1	2.830829713	0.04333145	0.95821355
ENSG00000266969	AP002449.1	NA	12984694	12991173	-	NA	18	19	0	7.245972896	8.35E-06	0.00498038
ENSG00000224057	EGFR-AS1	NA	55179750	55188934	-	100507500	7	14	3	2.153813442	0.01657597	0.5958645
ENSG00000233912	AC026202.2	NA	5156905	5187329	-	NA	3	11	1	3.284147477	0.00788025	0.42560136
ENSG00000184227	ACOT1	acyl-CoA thioesterase 1	73537114	73543794	+	641371	14	50	126	-1.354284771	1.95E-05	0.00929103
ENSG00000189171	S100A13	S100 calcium binding protein A13	153618787	153631360	-	6284	1	15	41	-1.466023074	0.00259342	0.22280582
ENSG00000115461	IGFBP5	insulin like growth factor binding protein 5	216672105	216695525	-	3488	2	1137	559	1.001079002	5.08E-06	0.00342747
ENSG00000227006	AL136988.2	NA	230258694	230268483	-	NA	1	8	20	-1.33137288	0.04895303	1
ENSG00000274776	AC090241.3	NA	46786699	46789297	-	NA	18	1	10	-3.191574278	0.01395124	0.57317426
ENSG00000188385	JAKMIP3	Janus kinase and microtubule interacting protein 3	132104671	132184809	+	282973	10	17	42	-1.321527202	0.00526378	0.33741566
ENSG00000226450	CYP2D8P	NA	42149886	42155001	-	NA	22	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000273014	AC018645.2	NA	32758882	32759353	+	NA	7	38	13	1.515494671	0.00216503	0.20507185
ENSG00000243137	PSG4	pregnancy specific beta-1-glycoprotein 4	43192702	43207299	-	5672	19	37	5	2.834014417	3.55E-06	0.00275693
ENSG00000236069	AL136987.2	NA	192529579	192538102	+	NA	1	1	9	-3.041533225	0.02463495	0.74193929
ENSG00000218175	AC016739.1	NA	176200908	176201252	-	NA	2	12	44	-1.886532865	0.00015341	0.03862803
ENSG00000259438	AC090970.2	NA	52010999	52019095	-	NA	15	6	0	5.603454913	0.03361661	0.8324078
ENSG00000280159	AC016583.1	NA	54643557	54645987	+	NA	5	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000270074	AC087203.3	NA	12412827	12414373	+	NA	8	0	10	-6.351290168	0.00242129	0.21443156
ENSG00000125650	PSPN	persephin	6375148	6379058	-	5623	19	39	19	1.009670323	0.02660856	0.77212427
ENSG00000072952	MRV1	murine retrovirus integration site 1 homolog	10573091	10693988	-	10335	11	359	714	-1.014757442	7.20E-06	0.00468779
ENSG00000236166	AL021408.1	NA	132085084	132099279	+	NA	6	7	0	5.821602045	0.01729787	0.5958645
ENSG00000121104	FAM117A	family with sequence similarity 117 member A	49710332	49789180	-	81558	17	43	95	-1.164324435	0.00056501	0.08891788
ENSG00000267649	AC010327.4	NA	55216660	55221616	+	NA	19	6	0	5.603454913	0.03361661	0.8324078
ENSG00000279386	AC021106.3	NA	37866561	37867091	-	NA	4	24	8	1.547253547	0.01209816	0.53423305
ENSG00000204880	KRTAP4-8	keratin associated protein 4-8	41096981	41098141	-	728224	17	6	0	5.603454913	0.03361661	0.8324078
ENSG00000118322	ATP10B	ATPase phospholipid transporting 10B (putative)	160563120	160852214	-	23120	5	11	0	6.464372701	0.00126829	0.14621903
ENSG00000215158	AC13840											

ENSG00000080618	CPB2	carboxypeptidase B2	46053186	46105076	-	1361	13	7	0	5.821602045	0.01729787	0.5958645
ENSG00000158525	CPA5	carboxypeptidase A5	130344816	130368730	+	93979	7	6	0	5.603454913	0.03361661	0.8324078
ENSG00000128510	CPA4	carboxypeptidase A4	130293134	130324180	+	51200	7	1937	934	1.029158878	1.47E-06	0.00148972
ENSG00000272716	AL121658.1	NA	32165046	32165757	-	NA	2	11	0	6.464372701	0.00126829	0.14621903
ENSG00000136275	C7orf69	NA	47795291	47819847	+	NA	7	9	0	6.178492236	0.00464266	0.30691904
ENSG00000178531	CTXN1	cortixin 1	7924485	7926166	-	404217	19	26	54	-1.073855184	0.0098652	0.46619858
ENSG00000176165	FOXG1	forkhead box G1	28760330	28770277	+	2290	14	29	11	1.365558911	0.01266414	0.54624477
ENSG00000170608	FOXA3	forkhead box A3	45863989	45873797	+	3171	19	0	11	-6.4871864	0.00126829	0.14621903
ENSG00000278937	AL137141.1	NA	46117864	46122699	+	NA	13	10	2	2.230135398	0.04430615	0.96117306
ENSG00000171811	CFAP46	cilia and flagella associated protein 46	132808392	132942823	-	54777	10	8	29	-1.86466429	0.00188854	0.18640307
ENSG00000197748	CFAP43	cilia and flagella associated protein 43	104129888	104232362	-	80217	10	22	7	1.611910175	0.01319757	0.55984925
ENSG00000172361	CFAP53	cilia and flagella associated protein 53	50227193	50266522	-	220136	18	18	4	2.112871213	0.00664724	0.38704964
ENSG00000278500	AC009336.2	homeobox D4	176151085	176173097	+	3233	2	1	10	-3.191574278	0.01395124	0.57317426
ENSG00000064270	ATP2C2	ATPase secretory pathway Ca2+ transporting 2	84368527	84464187	+	9914	16	4	21	-2.379140453	0.00169524	0.17655137
ENSG00000259921	AC022819.1	NA	99157231	99161140	-	NA	15	6	0	5.603454913	0.03361661	0.8324078
ENSG00000273366	Z83851.2	NA	42278188	42278846	+	NA	22	11	0	6.464372701	0.00126829	0.14621903
ENSG00000233903	Z83851.1	NA	42276355	42277052	+	NA	22	14	4	1.753163615	0.03847433	0.90546426
ENSG00000252361	RNU6-118P	NA	62815966	62816067	-	NA	11	1	8	-2.874057027	0.04333145	0.95821355
ENSG00000207954	MIR138-1	NA	44114212	44114310	+	406929	3	17	3	2.431648679	0.00394482	0.29823018
ENSG00000149328	GLB1L2	galactosidase beta 1 like 2	134331874	134378341	+	89944	11	5	17	-1.763187466	0.02315658	0.72522737
ENSG00000231701	BMS1P13	NA	65828120	65831696	+	NA	9	37	14	1.371208154	0.005121	0.33119861
ENSG00000196502	SULT1A1	sulfotransferase family 1A member 1	28605196	28623625	-	6817	16	2	14	-2.755008525	0.00572059	0.35537281
ENSG00000198010	DLGAP2	DLG associated protein 2	737596	1708474	+	9228	8	11	2	2.366006025	0.02678048	0.77212427
ENSG00000198075	SULT1C4	sulfotransferase family 1C member 4	108377911	108388057	+	27233	2	17	2	2.988259266	0.00118753	0.14474367
ENSG00000259953	AL138756.1	NA	112032555	112037730	-	NA	9	16	46	-1.539202002	0.00099317	0.12655611
ENSG00000230606	AC092683.1	NA	97416165	97433527	-	NA	2	128	54	1.220149937	0.00010046	0.02831489
ENSG00000226002	GTF2IP14	NA	65084103	65100232	+	NA	7	6	0	5.603454913	0.03361661	0.8324078
ENSG0000026036	RTEL1-TNFRSF6B	RTEL1-TNFRSF6B readthrough (NMD candidate)	63659300	63698684	+	100533107	20	21	45	-1.117948314	0.01301803	0.55621169
ENSG00000158423	RIBC1	RIB43A domain with coiled-coils 1	53422690	53431120	+	158787	X	2	11	-2.410535462	0.02678048	0.77212427
ENSG00000128408	RIBC2	RIB43A domain with coiled-coils 2	45413691	45432496	+	26150	22	15	4	1.85184114	0.02504257	0.74870021
ENSG00000235837	AC073333.1	NA	16695871	16719898	-	NA	7	9	1	2.998267012	0.02463495	0.74193929
ENSG00000107796	ACTA2	actin, alpha 2, smooth muscle, aorta	88935074	88991339	-	59	10	94	208	-1.167851098	1.68E-05	0.0082875
ENSG00000268350	FAM156A	family with sequence similarity 156 member A	52926402	52995472	-	29057	X	40	7	2.470704875	9.45E-06	0.00540875
ENSG00000234062	AL390879.2	NA	136909395	137021630	+	NA	X	11	2	2.366006025	0.02678048	0.77212427
ENSG00000131196	NFATC1	nuclear factor of activated T cells 1	79395856	79529325	+	4772	18	81	184	-1.20551438	1.77E-05	0.00856212
ENSG00000238098	ABCA17P	NA	2339150	2426699	+	650655	16	1	9	-3.041533225	0.02463495	0.74193929
ENSG00000119888	EPCAM	epithelial cell adhesion molecule	47345158	47387601	+	4072	2	1	11	-3.32747051	0.00788025	0.42560136
ENSG00000108342	CSF3	colony stimulating factor 3	40015361	40017813	+	1440	17	765	222	1.761259123	6.39E-14	7.24E-10
ENSG00000186399	GOLGA8R	golgin A8 family member R	30403740	30414162	-	101059918	15	36	16	1.140754835	0.01753535	0.59985518
ENSG00000178115	GOLGA8Q	golgin A8 family member Q	30552078	30562501	+	727909	15	1	17	-3.94981458	0.00025279	0.0532408
ENSG00000215014	AL645728.1	NA	1574975	1577075	+	NA	1	9	23	-1.364409461	0.03063511	0.8324078
ENSG00000259345	AC013652.1	NA	38865322	39427195	-	NA	15	3	17	-2.47670325	0.00394482	0.29823018
ENSG00000113946	CLDN16	claudin 16	190322541	190412143	+	10686	3	3	19	-2.636067816	0.00148807	0.15991045
ENSG00000162882	HAAO	3-hydroxyanthranilate 3,4-dioxygenase	42767089	42792593	-	23498	2	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000259066	AL110118.2	novel protein	93184973	93218586	+	NA	14	12	3	1.93356416	0.04197539	0.95430001
ENSG00000198780	FAM169A	family with sequence similarity 169 member A	74777574	74866951	-	26049	5	29	13	1.127027071	0.03350994	0.8324078
ENSG00000165376	CLDN2	claudin 2	106900164	106930861	+	9075	X	10	0	6.328502073	0.00242129	0.21443156
ENSG00000235530	AC087294.1	NA	21214331	21230035	+	NA	17	12	0	6.588541422	0.00066721	0.09763777
ENSG00000173805	HAP1	huntingtin associated protein 1	41717742	41734644	-	9001	17	1	8	-2.874057027	0.04333145	0.95821355
ENSG00000278456	AC015712.7	NA	100888472	100889106	-	NA	15	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000272808	AC015712.6	NA	100849831	100865457	+	105369201	15	7	24	-1.782377813	0.00616054	0.37408912
ENSG00000212724	KRTAP2-3	keratin associated protein 2-3	41059240	41060114	-	730755	17	123	46	1.393472944	1.15E-05	0.00615558
ENSG00000234084	AL049552.1	NA	135301568	135307158	+	NA	6	10	1	3.148276849	0.01395124	0.57317426
ENSG00000271032	AC020907.4	NA	35014961	35025335	-	NA	19	0	16	-7.02272042	5.33E-05	0.0193511
ENSG00000269688	AC008982.2	NA	38844729	38845499	-	NA	19	2	12	-2.534725564	0.01608407	0.5958645
ENSG00000187479	C11orf96	chromosome 11 open reading frame 96	43925342	43944338	+	387763	11	14	31	-1.162747492	0.02943072	0.82585301
ENSG00000234776	C11orf94	chromosome 11 open reading frame 94	45906513	45907282	-	143678	11	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000180425	C11orf71	chromosome 11 open reading frame 71	114391443	114400511	-	54494	11	26	11	1.208737584	0.03246835	0.8324078
ENSG00000115009	CCL20	C-C motif chemokine ligand 20	227813842	227817564	+	6364	2	1327	308	2.083649442	8.91E-20	1.68E-15
ENSG00000198870	STKLD1	serine/threonine kinase like domain containing 1	133376367	133406096	+	169436	9	7	29	-2.054117182	0.00085779	0.11407959
ENSG00000272787	AC253536.6	NA	23969211	23969873	+	NA	22	20	4	2.263871095	0.00268218	0.22748379
ENSG00000253537	PCDHGA7	protocadherin gamma subfamily A, 7	141382739	141512979	+	56108	5	72	145	-1.031767758	0.00040464	0.07164054
ENSG00000254245	PCDHGA3	protocadherin gamma subfamily A, 3	141343829	141512979	+	56112	5	21	45	-1.117948314	0.01301803	0.55621169
ENSG00000204956	PCDHGA1	protocadherin gamma subfamily A, 1	141330571	141512981	+	56114	5	10	29	-1.547217154	0.00718023	0.41003926
ENSG00000261934	PCDHGA9	protocadherin gamma subfamily A, 9	141402932	141512979	+	56107	5	65	25	1.351094469	0.00048689	0.0804226
ENSG00000156510	HKDC1	hexokinase domain containing 1	69220303	69267559	+	80201	10	9	0	6.178492236	0.00464266	0.30691904
ENSG00000254221	PCDHGB1	protocadherin gamma subfamily B, 1	141350102	141512979	+	56104	5	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000236431	AC009237.8	NA	95536117	95536495	-	NA	2	25	1	4.459393515	2.75E-06	0.00240045
ENSG00000229689	AC009237.3	NA	95525345	95532405	+	NA	2	59	27	1.101149753	0.00459709	0.30691904
ENSG00000279138	AP002847.1	NA	104478539	104480783	-	NA	8	17	5	1.717772741	0.02315658	0.72522737
ENSG00000252130	RNU6-1045P	NA	191370938	191371044	+	NA	2	8	0	6.011054937	0.00894141	0.44242407
ENSG00000102904	TSNAXIP1	translin associated factor X interacting protein 1	67806765	67832148	+	55815	16	15	45	-1.599937435	0.00076491	0.10647629
ENSG00000259363	AC090825.1	NA	99807023	99877148	+	400464	15	36	12	1.552098752	0.0022933	0.21443156
ENSG00000265194	AL359922.2	NA	21858910	21861926	-	NA	9	23	8	1.486180555	0.01731168	0.5958645
ENSG00000116661	FBXO2	F-box protein 2	11637018	11655785	-	26232	1	9	23	-1.364409461	0.03063511	0.8324078
ENSG00000260874	AC106820.5	NA	2456252	2459979	-	105371050	16	8	0	6.011054937	0.00894141	0.44242407
ENSG00000135722	FBXL8	F-box and leucine rich repeat protein 8	67159931	67164570	+	55336	16	16	45	-1.50757933	0.00133912	0.1511311
ENSG00000266302	AC098850.4	novel transcript	16690261	16804453	+	NA	17	14	0	6.808790704	0.000187	0.04333935
ENSG00000214922	HLA-F-AS1	HLA-F-AS1	29726601	29749049	-	285830	6	17	36	-1.099842418	0.02640494	0.77212427
ENSG00000140987	ZSCAN32	zinc finger and SCAN domain containing 32	3382081	3401065	-	54925	16	11	0	6.464372701	0.00126829	0.14621903
ENSG00000196812	ZSCAN16	zinc finger and SCAN domain containing 16	28124560	28130082	+	80345	6	15	32	-1.109694026	0.03399614	0.83595983
ENSG00000272148	AC013403.2	NA	27062428	27062907	-	NA	2	3	17	-2.47670325	0.00394482	0.29823018
ENSG00000116194	ANGPTL1	angiopoietin like 1	178849705	178871052	-							

ENSG00000162669	HFM1	HFM1, ATP dependent DNA helicase homolog	91260766	91404869	-	164045	1	2	10	-2.27463923	0.04430615	0.96117306
ENSG00000175305	CCNE2	cyclin E2	94879770	94896678	-	9134	8	110	50	1.112508706	0.00047696	0.07924308
ENSG00000243440	AF130351.1	NA	14591930	14658821	-	NA	21	11	2	2.366006025	0.02678048	0.77212427
ENSG00000196366	C9orf163	NA	136483495	136486067	+	NA	9	7	0	5.821602045	0.01729787	0.5958645
ENSG00000279800	BCLAF1P2	NA	34266041	34268649	-	NA	16	35	15	1.19262654	0.01490801	0.5958645
ENSG00000249965	CDC42P4	NA	109555170	109555732	+	NA	4	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000146411	SLC2A12	solute carrier family 2 member 12	133988697	134052636	-	154091	6	18	40	-1.16947784	0.01399964	0.57448933
ENSG00000235204	AL162724.2	NA	124259250	124261156	-	613206	9	11	2	2.366006025	0.02678048	0.77212427
ENSG00000134061	CD180	CD180 molecule	67179613	67196799	-	4064	5	6	0	5.603454913	0.03361661	0.8324078
ENSG00000271192	AC006058.2	NA	43996896	43997443	+	NA	3	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000240270	RPL12P37	NA	80976454	80976948	+	NA	17	1	8	-2.874057027	0.04333145	0.95821355
ENSG00000255471	AP001528.2	NA	86892214	86925037	-	NA	11	25	11	1.152432339	0.04395748	0.96117306
ENSG00000135929	CYP27A1	cytochrome P450 family 27 subfamily A member 1	218781749	218815293	+	1593	2	48	115	-1.281373161	7.28E-05	0.02396741
ENSG0000025039	RRAGD	Ras related GTP binding D	89364636	89412270	-	58528	6	36	7	2.31920505	4.94E-05	0.01913526
ENSG00000159212	CLIC6	chloride intracellular channel 6	34669389	34718227	+	54102	21	6	0	5.603454913	0.03361661	0.8324078
ENSG00000155962	CLIC2	chloride intracellular channel 2	155276211	155334657	-	1193	X	17	5	1.717772741	0.02315658	0.72522737
ENSG00000278416	PMS2P2	NA	75344015	75359550	-	NA	7	10	2	2.230135398	0.04430615	0.96117306
ENSG00000226647	AL365356.1	NA	5712174	5744067	-	NA	10	11	2	2.366006025	0.02678048	0.77212427
ENSG00000103056	SMPD3	sphingomyelin phosphodiesterase 3	68358325	68448688	-	55512	16	16	2	2.90145966	0.00200946	0.19394578
ENSG00000273419	AC004877.1	NA	149858400	149862492	-	NA	7	7	0	5.821602045	0.01729787	0.5958645
ENSG00000244588	RAD21L1	RAD21 cohesin complex component like 1	1226056	1296421	+	642636	20	4	21	-2.379140453	0.00169524	0.17655137
ENSG00000120217	CD274	CD274 molecule	5450503	5470566	+	29126	9	141	53	1.386475162	7.77E-06	0.00481643
ENSG00000164161	HHIP	hedgehog interacting protein	144646021	144745271	+	64399	4	4774	2306	1.026693614	9.44E-07	0.00106956
ENSG00000259404	EFTUD1P1	NA	84080168	84126604	+	NA	15	10	2	2.230135398	0.04430615	0.96117306
ENSG00000244134	RPS12P20	NA	72708186	72708565	+	NA	11	0	0	-5.626056987	0.03361661	0.8324078
ENSG00000242902	FLNC-AS1	NA	128850162	128862626	-	110806300	7	0	14	-6.831659463	0.000187	0.04333935
ENSG00000187372	PCDHB13	protocadherin beta 13	141213919	141218979	+	56123	5	0	8	-6.033772917	0.00894141	0.44242407
ENSG00000253741	AC108002.1	NA	142702252	142726973	-	100288181	8	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000117643	MAN1C1	mannosidase alpha class 1C member 1	25617468	25786207	+	57134	1	26	129	-2.328271983	3.79E-11	1.53E-07
ENSG00000176124	DLEU1	NA	50082171	50723236	+	10301	13	16	35	-1.146141525	0.02294735	0.72307126
ENSG00000231607	DLEU2	NA	49982552	50125720	-	8847	13	45	21	1.07200287	0.01301803	0.55621169
ENSG00000261542	AC011978.2	NA	63215981	63218034	+	NA	8	2	10	-2.27463923	0.04430615	0.96117306
ENSG00000155066	PROM2	prominin 2	95274453	95291308	+	150696	2	1	15	-3.770634598	0.00079462	0.10718826
ENSG00000249084	AC027627.1	NA	177343004	177357032	+	NA	4	1	9	-3.041533225	0.02463495	0.74193929
ENSG00000278000	AC139100.2	NA	80161752	80162413	+	NA	18	10	1	3.148276849	0.01395124	0.57317426
ENSG00000245213	AC105285.1	NA	173131928	173169652	-	101930370	4	22	8	1.422407463	0.02463569	0.74193929
ENSG00000175294	CATSPER1	cation channel sperm associated 1	66016752	66026517	-	117144	11	16	2	2.90145966	0.00200946	0.19394578
ENSG00000264964	AP001033.1	NA	9315194	9334441	-	NA	18	1	11	-3.32747051	0.00788025	0.42560136
ENSG00000184451	CCR10	C-C motif chemokine receptor 10	42678889	42683917	-	2826	17	11	34	-1.639924777	0.00242152	0.21443156
ENSG00000117707	PROX1	prospero homeobox 1	213983181	214041502	+	5629	1	11	1	3.284147477	0.00788025	0.42560136
ENSG00000241399	CD302	CD302 molecule	159768630	159798255	-	9936	2	47	108	-1.221164613	0.00018742	0.04333935
ENSG00000219902	RPL35P3	NA	105302453	105302823	-	NA	6	6	0	5.603454913	0.03361661	0.8324078
ENSG00000204314	PRRT1	proline rich transmembrane protein 1	32148359	32154373	-	80863	6	11	40	-1.873603443	0.00030241	0.05969635
ENSG00000167371	PRRT2	proline rich transmembrane protein 2	29811382	29815892	+	112476	16	10	29	-1.547217154	0.00718023	0.41003926
ENSG00000230212	AP00688.1	NA	36069642	36126640	-	100133286	21	0	12	-6.611376502	0.00066721	0.09763777
ENSG00000232907	DLGAP4-AS1	NA	36507702	36573391	-	101926987	20	6	0	5.603454913	0.03361661	0.8324078
ENSG00000224687	RASAL2-AS1	NA	178091508	178093984	-	100302401	1	11	30	-1.460051362	0.00916578	0.44650677
ENSG00000167157	PRRX2	paired related homeobox 2	129665641	129722674	+	51450	9	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000248874	C5orf17	NA	23951348	24178263	+	439936	5	7	0	5.821602045	0.01729787	0.5958645
ENSG00000236264	RPL26P30	NA	2335132	2335776	-	NA	11	0	17	-7.10953047	2.86E-05	0.01270536
ENSG00000267249	AP005482.3	NA	12670426	12671145	-	NA	18	1	9	-3.041533225	0.02463495	0.74193929
ENSG00000178776	C5orf46	chromosome 5 open reading frame 46	147880726	147906538	-	389336	5	61	21	1.509830133	0.00019769	0.04533635
ENSG00000215217	C5orf49	chromosome 5 open reading frame 49	7830378	7851490	-	134121	5	16	1	3.819601112	0.00044798	0.07572067
ENSG00000127241	MASP1	mannan binding lectin serine peptidase 1	187217285	187292022	-	5648	3	12	1	3.408316198	0.00444385	0.30691904
ENSG00000213641	RPL7AP4	NA	55543401	55544169	+	NA	14	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000088882	CPXM1	carboxypeptidase X, M14 family member 1	2794069	2800637	-	56265	20	15	57	-1.940139477	1.68E-05	0.0082875
ENSG00000229029	CDCA4P1	NA	14593577	14594200	+	NA	9	7	0	5.821602045	0.01729787	0.5958645
ENSG00000176532	PRR15	proline rich 15	29563811	29567295	+	222171	7	75	203	-1.458049468	1.86E-07	0.00027661
ENSG00000260018	AC040169.1	NA	84117051	84117571	+	NA	16	7	0	5.821602045	0.01729787	0.5958645
ENSG00000180525	PRR26	proline rich 26	649948	669581	+	414235	10	7	0	5.821602045	0.01729787	0.5958645
ENSG00000170166	HOXD4	homeobox D4	176151222	176153226	+	3233	2	19	3	2.590995634	0.00148807	0.15991045
ENSG00000203497	PDCD4-AS1	NA	110869868	110872233	-	NA	10	3	19	-2.636067816	0.00148807	0.15991045
ENSG00000258655	ARHGAP5-AS1	NA	32074946	32076793	-	NA	14	13	42	-1.705288106	0.00059128	0.09152773
ENSG00000213638	ADAT3	adenosine deaminase, tRNA specific 3	1905378	1913447	+	113179	19	15	34	-1.196829248	0.01970762	0.64839435
ENSG00000272692	AC010997.4	NA	75409157	75411842	+	NA	10	14	2	2.710424029	0.00572059	0.35537281
ENSG00000283162	AL390726.6	NA	38433696	38543880	+	NA	9	18	5	1.799645102	0.01534811	0.5958645
ENSG00000257497	AC121761.1	NA	75483454	75489820	-	NA	12	12	3	1.93356416	0.04197539	0.95430001
ENSG00000235917	MTCO2P11	NA	5098341	5099325	+	NA	9	6	0	5.603454913	0.03361661	0.8324078
ENSG00000233223	AC016876.1	NA	7581964	7584072	-	100996842	17	23	9	1.318704357	0.03063511	0.8324078
ENSG00000240163	AC087385.1	NA	60390371	60390682	+	NA	15	9	0	6.178492236	0.00464266	0.30691904
ENSG00000232450	AL133517.1	NA	113698884	113699631	-	NA	1	4	16	-1.989467105	0.0161862	0.5958645
ENSG00000250569	NTAN1P2	NA	86481754	86483002	-	NA	8	3	14	-2.198832243	0.01657597	0.5958645
ENSG00000224613	AC095032.1	NA	103418079	103525483	-	NA	1	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000272669	AL021707.6	NA	38742625	38743115	+	NA	22	9	0	6.178492236	0.00464266	0.30691904
ENSG00000154102	C16orf74	chromosome 16 open reading frame 74	85690084	85751129	-	404550	16	97	37	1.364432418	6.48E-05	0.02231598
ENSG00000255585	AL590627.1	NA	137776539	137789235	-	651337	9	8	1	2.830829713	0.04333145	0.95821355

ENSG00000238901	snoU13	NA	122671291	122671394	+	NA	8	7	0	5.821602045	0.01729787	0.5958645
ENSG00000238902	snoU13	NA	192534009	192534112	-	NA	3	7	0	5.821602045	0.01729787	0.5958645
ENSG00000238906	snoU13	NA	29912528	29912632	+	NA	7	7	0	5.821602045	0.01729787	0.5958645
ENSG00000239035	snoU13	NA	57278570	57278673	-	109616990	15	7	0	5.821602045	0.01729787	0.5958645
ENSG00000239041	snoU13	NA	172691299	172691402	+	NA	2	7	0	5.821602045	0.01729787	0.5958645
ENSG00000239079	snoU13	NA	122726208	122726311	-	NA	11	7	0	5.821602045	0.01729787	0.5958645
ENSG00000239080	snoU13	NA	136134317	136134420	-	NA	X	7	0	5.821602045	0.01729787	0.5958645
ENSG00000239093	snoU13	NA	187423315	187423419	+	NA	3	7	0	5.821602045	0.01729787	0.5958645
ENSG00000239096	snoU13	NA	179614775	179614878	-	NA	3	7	0	5.821602045	0.01729787	0.5958645
ENSG00000239129	snoU13	NA	29883006	29883109	+	NA	17	7	0	5.821602045	0.01729787	0.5958645
ENSG00000239137	snoU13	NA	55167171	55167274	+	NA	19	7	0	5.821602045	0.01729787	0.5958645
ENSG00000239153	snoU13	NA	115627082	115627185	-	NA	11	7	0	5.821602045	0.01729787	0.5958645
ENSG00000271922	snoU13	NA	154329716	154329819	+	NA	3	7	0	5.821602045	0.01729787	0.5958645
ENSG00000261150	EPPK1	epiplakin 1	143857324	143878464	-	83481	8	13	1	3.522639813	0.00250381	0.21723364
ENSG00000280670	CCDC163	coiled-coil domain containing 163	45493866	45500079	-	126661	1	11	2	2.366006025	0.02678048	0.77212427
ENSG00000187860	CCDC157	coiled-coil domain containing 157	30356635	30378658	+	550631	22	32	11	1.506992692	0.00474403	0.31072044
ENSG00000228415	PTMAP1	NA	30633632	30633956	+	NA	6	6	0	5.603454913	0.03361661	0.8324078
ENSG00000185839	AL035411.1	NA	58630841	58631530	-	NA	1	3	17	-2.47670325	0.00394482	0.29823018
ENSG00000196118	CCDC189	coiled-coil domain containing 189	30757423	30762710	-	90835	16	14	4	1.753163615	0.03847433	0.90546426
ENSG00000209482	SNORD83A	NA	39315213	39315307	-	116937	22	2	12	-2.534725564	0.01608407	0.5958645
ENSG00000184162	NR2C2AP	nuclear receptor 2C2 associated protein	19201416	19203424	-	126382	19	25	56	-1.182509797	0.00433438	0.30691904
ENSG00000138944	KIAA1644	shisa like 1	44243667	44312851	-	85352	22	10	69	-2.794195331	2.83E-09	7.28E-06
ENSG00000171476	HOPX	HOP homeobox	56647988	56681899	-	84525	4	9	0	6.178492236	0.00464266	0.30691904
ENSG00000145416	1-Mar	membrane associated ring-CH-type finger 1	163524298	164384050	-	55016	4	139	63	1.117058569	0.00022405	0.04939223
ENSG00000243404	RPL35AP32	NA	66446455	66446777	-	NA	15	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000258311	AC009779.3	BLOC1S1-RDH5 readthrough	55716036	55724703	+	NA	12	0	11	-6.4871864	0.00126829	0.14621903
ENSG00000225358	MIPEPP1	NA	112735166	112738693	-	NA	7	6	0	5.603454913	0.03361661	0.8324078
ENSG00000265321	MIR4263	NA	27996367	27996449	+	100422965	2	0	15	-6.930350488	9.96E-05	0.02829695
ENSG00000230309	AL121718.1	NA	78604467	78606036	-	NA	6	33	14	1.206742273	0.01669856	0.5958645
ENSG00000261770	AC006504.1	NA	27757184	27760849	-	NA	19	32	7	2.149908886	0.00025475	0.05325746
ENSG00000281468	AC006504.8	NA	27802838	27803472	+	NA	19	41	16	1.327768073	0.00432459	0.30691904
ENSG00000231443	AC124944.2	NA	195937243	195938739	+	NA	3	14	0	6.808790704	0.000187	0.04333935
ENSG00000258096	AC025031.2	NA	46371463	46373778	+	NA	12	3	23	-2.910074476	0.000207	0.04672245
ENSG00000168970	JMJD7-PLA2G4B	JMJD7-PLA2G4B readthrough	41828095	41848155	+	8681	15	2	10	-2.27463923	0.04430615	0.96117306
ENSG00000260618	AC025917.1	NA	52577842	52598709	+	NA	15	13	30	-1.221559025	0.02513009	0.75052463
ENSG00000268262	AC011445.1	NA	39314651	39320858	-	NA	19	1	8	-2.874057027	0.04333145	0.95821355
ENSG00000132470	ITGB4	integrin subunit beta 4	75721328	75757818	+	3691	17	22	67	-1.62415901	6.50E-05	0.02231598
ENSG00000188092	GPR89B	G protein-coupled receptor 89B	147928393	147993521	+	51463	1	125	247	-1.004926477	0.00011156	0.03083193
ENSG00000105855	ITGB8	integrin subunit beta 8	20330702	20415754	+	3696	7	119	262	-1.160834076	8.24E-06	0.00498038
ENSG00000256001	AC079949.1	NA	127145072	127146532	-	NA	12	28	8	1.768569201	0.00275824	0.23217626
ENSG00000261002	AC036103.1	NA	42208413	42226990	+	NA	15	10	1	3.148276849	0.01395124	0.57317426
ENSG00000091409	ITGA6	integrin subunit alpha 6	172427354	172506282	+	3655	2	1009	485	1.03360792	2.95E-06	0.00249836
ENSG00000236393	AC091806.1	NA	40262917	40287720	+	101927476	X	23	8	1.486180555	0.01731168	0.5958645
ENSG00000184068	AL021453.1	NA	41831215	41834665	-	NA	22	14	36	-1.377677655	0.00691861	0.39956564
ENSG00000245552	AP000787.1	NA	95150539	95234104	+	101929295	11	8	20	-1.33137288	0.04895303	1
ENSG00000155792	DEPTOR	DEP domain containing MTOR interacting protein	119873717	120050913	+	64798	8	28	11	1.315155718	0.01741971	0.59776732
ENSG00000235448	LURAP1L-AS1	NA	12700100	12814345	-	101929467	9	20	8	1.285725268	0.04895303	1
ENSG00000206754	SNORD101	NA	132815307	132815379	+	594837	6	10	2	2.230135398	0.04430615	0.96117306
ENSG00000267048	AC092143.4	NA	89906157	89918233	+	NA	16	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000230882	AC005077.4	NA	76071469	76074963	-	NA	7	10	0	6.328502073	0.00242129	0.21443156
ENSG00000235681	AC245884.3	NA	54446830	54447047	+	NA	19	15	1	3.727243006	0.00079462	0.10718826
ENSG00000242110	AMACR	alpha-methylacyl-CoA racemase	33986178	34008108	-	23600	5	0	6	-5.626056987	0.03361661	0.8324078
ENSG00000232909	AL157823.2	NA	35733867	35736947	-	NA	6	7	26	-1.897284484	0.00282728	0.23551614
ENSG00000176681	LRRC37A	leucine rich repeat containing 37A	46292733	46337794	+	9884	17	38	14	1.409553447	0.00377845	0.29183059
ENSG00000280916	FOXCI	NA	1605531	1606079	+	NA	6	0	9	-6.201249115	0.00464266	0.30691904
ENSG00000234076	TPRG1-AS1	NA	188941715	188947639	-	100874043	3	6	0	5.603454913	0.03361661	0.8324078
ENSG00000184792	OSBP2	oxysterol binding protein 2	30693782	30907824	+	23762	22	46	12	1.904641422	7.67E-05	0.02458115
ENSG00000229956	ZRANB2-AS2	NA	71081324	71489976	+	100852410	1	1	12	-3.451660612	0.00444385	0.30691904
ENSG00000264425	MIR4653	NA	101159473	101159555	+	100616117	7	1	11	-3.32747051	0.00788025	0.42560136
ENSG00000116299	KIAA1324	KIAA1324	109113679	109206781	+	57535	1	8	22	-1.46806803	0.02463569	0.74193929
ENSG00000168811	IL12A	interleukin 12A	159988750	159996019	+	3592	3	19	7	1.401702691	0.03970312	0.92328994
ENSG00000228492	RAB11FIP1P1	NA	74202834	74204595	+	NA	X	26	11	1.208737584	0.03246835	0.8324078
ENSG00000231999	LRRC8C-DT	NA	89583241	89632894	-	400761	1	9	0	6.178492236	0.00464266	0.30691904
ENSG00000269161	AC010618.2	NA	17518330	17520565	-	NA	19	0	7	-5.844270205	0.01729787	0.5958645
ENSG00000260236	AC099778.1	NA	47379089	47380999	-	NA	3	23	9	1.318704357	0.03063511	0.8324078
ENSG00000253174	AC009630.2	NA	41540381	41545044	-	NA	8	10	0	6.328502073	0.00242129	0.21443156
ENSG00000256006	AC084117.1	NA	18405609	18406731	+	NA	11	14	0	6.808790704	0.000187	0.04333935
ENSG00000163531	NFASC	neurofascin	204828651	205022822	+	23114	1	18	4	2.112871213	0.00664724	0.38704964
ENSG00000259450	AC113146.2	NA	39188438	39194309	-	NA	15	9	22	-1.300630732	0.04253884	0.95821355