

Table S10 Catalogue of putative loss-of-function (pLoF) variants classified as 'High Impact' in the SPF Beagle genome.

Chr	Position	Ref	Alt	Consequence	Impact	Gene Name	Gene ID	Transcript ID	Biotype
1	237069	C	T	stop_gained	HIGH	ENSCAFG00845000018	ENSCAFG00845000018	ENSCAFT00845000023.1	protein_coding
1	735473	C	T	stop_gained	HIGH	CTDP1	ENSCAFG00845000045	ENSCAFT00845000080.1	protein_coding
1	16900360	T	C	stop_gained	HIGH	SEC11C	ENSCAFG00845000586	ENSCAFT00845000966.1	protein_coding
1	32710584	G	A	stop_gained	HIGH	ENSCAFG00845010927	ENSCAFG00845010927	ENSCAFT00845019301.1	protein_coding
1	37383852	T	A	stop_gained	HIGH	GRM1	ENSCAFG00845013661	ENSCAFT00845024382.1	protein_coding
1	40514693	G	A	stop_gained	HIGH	PPIL4	ENSCAFG00845018247	ENSCAFT00845032278.1	protein_coding
1	42788201	T	A	stop_gained	HIGH	SYNE1	ENSCAFG00845000043	ENSCAFT00845000107.1	protein_coding
1	56009857	G	A	stop_gained	HIGH	SMOC2	ENSCAFG00845005168	ENSCAFT00845009278.1	protein_coding
1	64843214	C	T	stop_gained	HIGH	HEY2	ENSCAFG00845000089	ENSCAFT00845000151.1	protein_coding
1	90359821	C	T	stop_gained	HIGH	DMRT3	ENSCAFG00845002003	ENSCAFT00845003494.1	protein_coding
1	100897535	A	G	stop_gained	HIGH	ENSCAFG00845001059	ENSCAFG00845001059	ENSCAFT00845001822.1	protein_coding
1	102131853	G	A	stop_gained	HIGH	ENSCAFG00845000189	ENSCAFG00845000189	ENSCAFT00845000293.1	protein_coding
1	104564786	G	A	stop_gained	HIGH	ENSCAFG00845004413	ENSCAFG00845004413	ENSCAFT00845007922.1	protein_coding
1	104564988	G	T	stop_gained	HIGH	ENSCAFG00845004413	ENSCAFG00845004413	ENSCAFT00845007922.1	protein_coding
1	104565648	A	T	stop_gained	HIGH	ENSCAFG00845004413	ENSCAFG00845004413	ENSCAFT00845007922.1	protein_coding
1	110948484	T	A	stop_gained	HIGH	CLASRP	ENSCAFG00845006006	ENSCAFT00845010674.1	protein_coding
1	110948501	C	T	stop_gained	HIGH	CLASRP	ENSCAFG00845006006	ENSCAFT00845010674.1	protein_coding
1	110977422	G	A	stop_gained	HIGH	RELB	ENSCAFG00845006117	ENSCAFT00845010980.1	protein_coding
1	117270953	C	T	stop_gained	HIGH	CLIP3	ENSCAFG00845000488	ENSCAFT00845000790.1	protein_coding
2	35166644	C	A	stop_gained	HIGH	MZB1	ENSCAFG00845000734	ENSCAFT00845001209.1	protein_coding
2	40960760	G	A	stop_gained	HIGH	SH3RF2	ENSCAFG00845019659	ENSCAFT00845034680.1	protein_coding
2	51498313	C	A	stop_gained	HIGH	ADAMTS6	ENSCAFG00845009387	ENSCAFT00845016560.1	protein_coding
2	53146611	C	A	stop_gained	HIGH	CD180	ENSCAFG00845011648	ENSCAFT00845020654.1	protein_coding
2	56814412	A	T	stop_gained	HIGH	FOXD1	ENSCAFG00845000688	ENSCAFT00845001127.1	protein_coding
2	61001239	G	T	stop_gained	HIGH	LPCAT2	ENSCAFG00845000815	ENSCAFT00845001355.1	protein_coding
2	68513838	G	A	start_lost	HIGH	ZSCAN20	ENSCAFG00845004991	ENSCAFT00845008930.1	protein_coding
2	69544619	G	A	stop_gained	HIGH	EIF3I	ENSCAFG00845004989	ENSCAFT00845008920.1	protein_coding
2	70774166	A	G	stop_gained	HIGH	LAPTM5	ENSCAFG00845007384	ENSCAFT00845013024.1	protein_coding
2	79919505	G	A	stop_gained	HIGH	CAPZB	ENSCAFG00845003322	ENSCAFT00845005918.1	protein_coding
3	12769595	C	T	stop_gained	HIGH	ERAP1	ENSCAFG00845002563	ENSCAFT00845004540.1	protein_coding
3	27152066	G	A	stop_gained	HIGH	CMYA5	ENSCAFG00845006378	ENSCAFT00845011397.1	protein_coding
3	30915859	T	A	stop_gained	HIGH	HMGCR	ENSCAFG00845011849	ENSCAFT00845021051.1	protein_coding
3	33301778	C	T	stop_gained	HIGH	GABRG3	ENSCAFG00845017588	ENSCAFT00845031211.1	protein_coding
3	63452181	C	T	stop_gained	HIGH	ENSCAFG00845000600	ENSCAFG00845000600	ENSCAFT00845001008.1	protein_coding
3	65162589	T	A	stop_gained	HIGH	FBXL5	ENSCAFG00845001403	ENSCAFT00845002409.1	protein_coding
3	70242207	C	T	stop_gained	HIGH	SLC2A9	ENSCAFG00845002932	ENSCAFT00845005245.1	protein_coding
3	70559181	G	T	stop_gained	HIGH	NSG1	ENSCAFG00845003138	ENSCAFT00845005531.1	protein_coding
3	71937567	T	C	stop_gained	HIGH	C4orf50	ENSCAFG00845003740	ENSCAFT00845006684.1	protein_coding

3	75446306	G	A	stop_gained	HIGH	NWD2	ENSCAFG00845005206	ENSCAFT00845009311.1	protein_coding
4	2427075	G	A	stop_gained	HIGH	RYSR2	ENSCAFG00845002388	ENSCAFT00845004266.1	protein_coding
4	13963128	C	G	start_lost	HIGH	CABCOC01	ENSCAFG00845003174	ENSCAFT00845005611.1	protein_coding
4	21772491	C	T	stop_gained	HIGH	PRF1	ENSCAFG00845004341	ENSCAFT00845007817.1	protein_coding
4	29699104	C	T	stop_gained	HIGH	SFTPD	ENSCAFG00845014766	ENSCAFT00845026394.1	protein_coding
4	40534367	C	T	stop_gained	HIGH	STK10	ENSCAFG00845001258	ENSCAFT00845002171.1	protein_coding
4	58984262	A	C	stop_gained	HIGH	SYNPO	ENSCAFG00845006489	ENSCAFT00845011510.1	protein_coding
5	8822428	A	G	stop_lost	HIGH	CHEK1	ENSCAFG00845010598	ENSCAFT00845018774.1	protein_coding
5	9331200	A	T	stop_gained	HIGH	SLC37A2	ENSCAFG00845011266	ENSCAFT00845020104.1	protein_coding
5	10098803	A	G	stop_gained	HIGH	OR8B60	ENSCAFG00845011472	ENSCAFT00845020330.1	protein_coding
5	19111972	T	C	stop_gained	HIGH	ZBTB16	ENSCAFG00845000220	ENSCAFT00845000341.1	protein_coding
5	21154265	G	A	stop_gained	HIGH	DIXDC1	ENSCAFG00845001790	ENSCAFT00845003169.1	protein_coding
5	22392492	A	G	stop_gained	HIGH	ARHGAP20	ENSCAFG00845002745	ENSCAFT00845004894.1	protein_coding
5	57490014	T	C	stop_lost	HIGH	RER1	ENSCAFG00845017296	ENSCAFT00845030627.1	protein_coding
5	68777409	T	C	start_lost	HIGH	HSBP1	ENSCAFG00845016653	ENSCAFT00845029511.1	protein_coding
6	8464111	G	A	stop_gained	HIGH	FIS1	ENSCAFG00845005056	ENSCAFT00845009057.1	protein_coding
6	8637513	A	C	stop_gained	HIGH	ENSCAFG00845000663	ENSCAFG00845000663	ENSCAFT00845001086.1	protein_coding
6	9300167	C	T	stop_gained	HIGH	GAL3ST4	ENSCAFG00845002407	ENSCAFT00845004251.1	protein_coding
6	10092292	G	A	stop_gained	HIGH	ENSCAFG00845003476	ENSCAFG00845003476	ENSCAFT00845006166.1	protein_coding
6	59017034	G	A	stop_gained	HIGH	ZNF326	ENSCAFG00845017298	ENSCAFT00845030633.1	protein_coding
6	64032034	G	A	stop_gained	HIGH	UOX	ENSCAFG00845001685	ENSCAFT00845002983.1	protein_coding
6	69367992	T	C	stop_gained	HIGH	GIPC2	ENSCAFG00845003104	ENSCAFT00845005501.1	protein_coding
6	76474732	G	A	stop_gained	HIGH	LRRC7	ENSCAFG00845013252	ENSCAFT00845023685.1	protein_coding
7	5307155	G	A	stop_gained	HIGH	ASPM	ENSCAFG00845001126	ENSCAFT00845001943.1	protein_coding
7	9534096	G	A	stop_gained	HIGH	TRAF5	ENSCAFG00845003309	ENSCAFT00845005885.1	protein_coding
7	18043906	C	T	stop_gained	HIGH	TRMT1L	ENSCAFG00845005028	ENSCAFT00845009031.1	protein_coding
7	28395384	C	T	stop_gained	HIGH	KIFAP3	ENSCAFG00845001773	ENSCAFT00845003124.1	protein_coding
7	44744857	C	T	stop_gained	HIGH	LOXHD1	ENSCAFG00845002851	ENSCAFT00845005373.1	protein_coding
7	45972432	G	A	stop_gained	HIGH	SETBP1	ENSCAFG00845003603	ENSCAFT00845006416.1	protein_coding
7	53901128	C	T	stop_gained	HIGH	FHOD3	ENSCAFG00845004472	ENSCAFT00845008059.1	protein_coding
7	54716767	C	A	stop_gained	HIGH	ZSCAN30	ENSCAFG00845006958	ENSCAFT00845012353.1	protein_coding
7	59824437	G	A	stop_gained	HIGH	ENSCAFG00845011983	ENSCAFG00845011983	ENSCAFT00845021321.1	protein_coding
7	64566853	C	T	stop_gained	HIGH	LAMA3	ENSCAFG00845013821	ENSCAFT00845026197.1	protein_coding
7	64589398	T	C	stop_gained	HIGH	LAMA3	ENSCAFG00845013821	ENSCAFT00845026197.1	protein_coding
7	74983806	C	T	stop_gained	HIGH	MTCL1	ENSCAFG00845004330	ENSCAFT00845007829.1	protein_coding
8	2419608	T	A	stop_gained	HIGH	ENSCAFG00845023209	ENSCAFG00845023209	ENSCAFT00845040949.1	protein_coding
8	9107774	T	A	stop_lost	HIGH	ENSCAFG00845009533	ENSCAFG00845009533	ENSCAFT00845017356.1	protein_coding
8	28478133	G	A	stop_gained	HIGH	NID2	ENSCAFG00845003626	ENSCAFT00845006474.1	protein_coding
8	41946377	G	A	stop_gained	HIGH	ZFYVE26	ENSCAFG00845003602	ENSCAFT00845006429.1	protein_coding
8	61824873	C	T	stop_gained	HIGH	TTC7B	ENSCAFG00845013189	ENSCAFT00845023504.1	protein_coding

8	62096659	A	C	stop_gained	HIGH	RPS6KA5	ENSCAFG00845013465	ENSCAFT00845024077.1	protein_coding
9	19799832	C	A	stop_gained	HIGH	SLC25A39	ENSCAFG00845008385	ENSCAFT00845014839.1	protein_coding
9	20081590	C	T	stop_gained	HIGH	PYY	ENSCAFG00845009862	ENSCAFT00845017370.1	protein_coding
9	20936104	G	A	stop_gained&	HIGH	CNTD1	ENSCAFG00845007621	ENSCAFT00845013422.1	protein_coding
9	24974258	C	T	stop_gained	HIGH	SP6	ENSCAFG00845015746	ENSCAFT00845028044.1	protein_coding
9	26815733	C	T	stop_gained	HIGH	DLX3	ENSCAFG00845011753	ENSCAFT00845020865.1	protein_coding
9	36725949	G	A	stop_gained&	HIGH	PPM1D	ENSCAFG00845028053	ENSCAFT00845049525.1	protein_coding
9	38734530	C	T	stop_gained	HIGH	GAS2L2	ENSCAFG00845009497	ENSCAFT00845016752.1	protein_coding
9	56512404	T	C	stop_lost	HIGH	FPGS	ENSCAFG00845005346	ENSCAFT00845009506.1	protein_coding
9	56639282	T	C	stop_gained	HIGH	STXBP1	ENSCAFG00845005773	ENSCAFT00845010262.1	protein_coding
10	24832605	T	C	stop_gained	HIGH	EP300	ENSCAFG00845018383	ENSCAFT00845032551.1	protein_coding
10	26036019	G	A	stop_gained	HIGH	ENTHD1	ENSCAFG00845021136	ENSCAFT00845037293.1	protein_coding
10	27519479	G	A	stop_gained	HIGH	MICALL1	ENSCAFG00845005328	ENSCAFT00845009491.1	protein_coding
10	47283551	G	A	stop_gained	HIGH	LRPPRC	ENSCAFG00845026058	ENSCAFT00845046019.1	protein_coding
10	65140680	C	T	stop_gained	HIGH	AFTPH	ENSCAFG00845020600	ENSCAFT00845036307.1	protein_coding
11	2610881	C	A	stop_gained	HIGH	ZFP2	ENSCAFG00845009219	ENSCAFT00845016224.1	protein_coding
11	29993910	G	A	stop_gained	HIGH	ENSCAFG00845026437	ENSCAFG00845026437	ENSCAFT00845048612.1	protein_coding
11	36618691	C	T	stop_gained	HIGH	ENSCAFG00845012408	ENSCAFG00845012408	ENSCAFT00845022052.1	protein_coding
11	55253612	A	T	stop_gained	HIGH	DCAF10	ENSCAFG00845013974	ENSCAFT00845024974.1	protein_coding
11	56329017	G	A	stop_gained	HIGH	HEMGN	ENSCAFG00845006327	ENSCAFT00845011206.1	protein_coding
11	59202936	C	T	stop_gained	HIGH	PLPPR1	ENSCAFG00845009012	ENSCAFT00845015900.1	protein_coding
11	61413011	A	G	stop_gained	HIGH	TOPORS�	ENSCAFG00845009721	ENSCAFT00845017132.1	protein_coding
11	63597229	C	T	stop_gained	HIGH	ZNF462	ENSCAFG00845011443	ENSCAFT00845020290.1	protein_coding
11	63600371	G	A	stop_gained	HIGH	ZNF462	ENSCAFG00845011443	ENSCAFT00845020290.1	protein_coding
11	71187031	C	T	stop_gained	HIGH	PAPPA	ENSCAFG00845011656	ENSCAFT00845020688.1	protein_coding
12	1657761	G	A	stop_gained	HIGH	ATF6B	ENSCAFG00845014557	ENSCAFT00845026165.1	protein_coding
12	2974899	G	A	stop_gained	HIGH	COL11A2	ENSCAFG00845019587	ENSCAFT00845034709.1	protein_coding
12	3455444	A	T	stop_gained	HIGH	LEMD2	ENSCAFG00845025993	ENSCAFT00845045906.1	protein_coding
12	15941229	C	A	stop_gained	HIGH	ENSCAFG00845013637	ENSCAFG00845013637	ENSCAFT00845024304.1	protein_coding
12	24379142	T	A	stop_gained	HIGH	DST	ENSCAFG00845012662	ENSCAFT00845023681.1	protein_coding
12	47607558	G	A	stop_gained	HIGH	GJB7	ENSCAFG00845005554	ENSCAFT00845009877.1	protein_coding
12	49760915	G	A	stop_gained	HIGH	MDN1	ENSCAFG00845007335	ENSCAFT00845013540.1	protein_coding
12	66533701	G	A	stop_gained	HIGH	FOXO3	ENSCAFG00845009586	ENSCAFT00845016873.1	protein_coding
12	67333075	A	T	stop_gained	HIGH	ENSCAFG00845012222	ENSCAFG00845012222	ENSCAFT00845021743.1	protein_coding
12	67333079	G	T	stop_gained	HIGH	ENSCAFG00845012222	ENSCAFG00845012222	ENSCAFT00845021743.1	protein_coding
13	10248191	T	A	stop_gained	HIGH	PKHD1L1	ENSCAFG00845011869	ENSCAFT00845023407.1	protein_coding
13	16799809	G	A	stop_gained	HIGH	ENSCAFG00845014379	ENSCAFG00845014379	ENSCAFT00845025723.1	protein_coding
13	23325773	C	T	stop_gained	HIGH	ZNF572	ENSCAFG00845011976	ENSCAFT00845021302.1	protein_coding
13	33873858	G	A	stop_gained	HIGH	FAM135B	ENSCAFG00845011345	ENSCAFT00845020107.1	protein_coding
13	62327455	C	T	stop_gained	HIGH	ADAMTS3	ENSCAFG00845012236	ENSCAFT00845021770.1	protein_coding

14	5395804	A	T	stop_gained	HIGH	MKLN1	ENSCAFG00845015885	ENSCAFT00845028632.1	protein_coding
14	18454988	A	T	stop_gained	HIGH	SAMD9L	ENSCAFG00845013275	ENSCAFT00845023637.1	protein_coding
14	27233536	G	T	stop_gained	HIGH	SCIN	ENSCAFG00845026419	ENSCAFT00845046751.1	protein_coding
14	31106510	C	T	stop_gained	HIGH	BZW2	ENSCAFG00845005705	ENSCAFT00845010112.1	protein_coding
14	59122746	G	A	stop_gained	HIGH	ING3	ENSCAFG00845010632	ENSCAFT00845018731.1	protein_coding
15	25385755	G	A	stop_gained	HIGH	TMTC2	ENSCAFG00845011393	ENSCAFT00845020191.1	protein_coding
15	35153595	A	C	stop_gained	HIGH	CEP83	ENSCAFG00845022275	ENSCAFT00845039307.1	protein_coding
15	36074332	C	A	stop_gained	HIGH	USP44	ENSCAFG00845023662	ENSCAFT00845041783.1	protein_coding
15	46697055	C	T	stop_gained	HIGH	PRMT9	ENSCAFG00845013422	ENSCAFT00845023920.1	protein_coding
15	48732716	G	A	stop_gained	HIGH	ENSCAFG00845013810	ENSCAFG00845013810	ENSCAFT00845024634.1	protein_coding
15	49800412	G	A	stop_gained	HIGH	SH3D19	ENSCAFG00845005957	ENSCAFT00845010703.1	protein_coding
16	6203277	T	C	stop_gained	HIGH	CLCN1	ENSCAFG00845016951	ENSCAFT00845030053.1	protein_coding
16	6612859	G	T	stop_gained	HIGH	TRPV6	ENSCAFG00845018322	ENSCAFT00845032409.1	protein_coding
16	14838514	A	T	stop_gained	HIGH	POLM	ENSCAFG00845006272	ENSCAFT00845011123.1	protein_coding
16	15853523	T	A	stop_gained	HIGH	ZNF786	ENSCAFG00845007981	ENSCAFT00845014058.1	protein_coding
16	16586031	C	T	stop_gained	HIGH	GIMAP2	ENSCAFG00845009569	ENSCAFT00845016847.1	protein_coding
16	22452820	G	A	stop_lost	HIGH	ESYT2	ENSCAFG00845014771	ENSCAFT00845026505.1	protein_coding
16	29173326	G	A	stop_gained	HIGH	DDHD2	ENSCAFG00845012916	ENSCAFT00845023092.1	protein_coding
16	33292652	G	T	stop_gained	HIGH	FUT10	ENSCAFG00845014634	ENSCAFT00845026182.1	protein_coding
16	56211089	G	T	stop_gained	HIGH	CBD130	ENSCAFG00845020898	ENSCAFT00845036865.1	protein_coding
17	34435108	T	A	stop_gained	HIGH	PKDCC	ENSCAFG00845025576	ENSCAFT00845045191.1	protein_coding
17	37584070	C	G	stop_gained	HIGH	CHCHD5	ENSCAFG00845011007	ENSCAFT00845019450.1	protein_coding
17	53304681	A	C	stop_gained	HIGH	CSDE1	ENSCAFG00845026694	ENSCAFT00845047196.1	protein_coding
17	55240286	G	T	stop_gained	HIGH	PTGFRN	ENSCAFG00845029002	ENSCAFT00845051304.1	protein_coding
17	55397367	A	T	stop_gained&	HIGH	ENSCAFG00845029291	ENSCAFG00845029291	ENSCAFT00845051843.1	protein_coding
17	57430017	C	A	stop_gained	HIGH	HSD3B2	ENSCAFG00845006351	ENSCAFT00845011264.1	protein_coding
18	6079788	C	T	stop_gained	HIGH	EGFR	ENSCAFG00845011396	ENSCAFT00845020269.1	protein_coding
18	12298486	C	T	stop_gained	HIGH	SFRP4	ENSCAFG00845022126	ENSCAFT00845039041.1	protein_coding
18	22034005	G	A	stop_gained	HIGH	CACNA2D1	ENSCAFG00845026601	ENSCAFT00845047024.1	protein_coding
18	38411606	C	T	stop_gained	HIGH	ZFP91	ENSCAFG00845018289	ENSCAFT00845032335.1	protein_coding
18	40067737	T	C	stop_gained	HIGH	OR5M12	ENSCAFG00845005943	ENSCAFT00845010512.1	protein_coding
18	51457347	G	A	stop_gained	HIGH	PC	ENSCAFG00845011738	ENSCAFT00845020879.1	protein_coding
18	53755669	C	T	stop_gained	HIGH	CCDC88B	ENSCAFG00845030464	ENSCAFT00845054049.1	protein_coding
18	53841300	C	A	stop_gained	HIGH	PLCB3	ENSCAFG00845030670	ENSCAFT00845054456.1	protein_coding
18	54435919	T	A	stop_gained	HIGH	PLAAT3	ENSCAFG00845006522	ENSCAFT00845011597.1	protein_coding
19	13254569	T	G	stop_lost	HIGH	SLC25A31	ENSCAFG00845017577	ENSCAFT00845031130.1	protein_coding
19	24426674	G	T	stop_gained	HIGH	IWS1	ENSCAFG00845022278	ENSCAFT00845039303.1	protein_coding
19	32399037	C	A	stop_gained	HIGH	MARCO	ENSCAFG00845029094	ENSCAFT00845051470.1	protein_coding
19	33382446	C	T	stop_gained	HIGH	ENSCAFG00845006053	ENSCAFG00845006053	ENSCAFT00845010706.1	protein_coding
19	44758960	T	C	stop_gained	HIGH	LRP1B	ENSCAFG00845011094	ENSCAFT00845020640.1	protein_coding

20	22751993	C	T	stop_gained	HIGH	EOGT	ENSCAFG00845010941	ENSCAFT00845019440.1	protein_coding
20	33099113	C	T	stop_gained	HIGH	DENND6A	ENSCAFG00845021689	ENSCAFT00845038355.1	protein_coding
20	33254554	G	A	stop_gained	HIGH	DNAH12	ENSCAFG00845022260	ENSCAFT00845040145.1	protein_coding
20	36027489	C	T	stop_gained	HIGH	CACNA2D3	ENSCAFG00845026635	ENSCAFT00845047020.1	protein_coding
20	37454239	G	A	stop_lost	HIGH	GNL3	ENSCAFG00845029903	ENSCAFT00845052956.1	protein_coding
20	46204220	C	A	stop_gained	HIGH	CPAMD8	ENSCAFG00845029496	ENSCAFT00845052236.1	protein_coding
20	51255457	C	T	stop_gained	HIGH	CDC37	ENSCAFG00845027375	ENSCAFT00845048202.1	protein_coding
20	52214715	A	T	start_lost	HIGH	OR1M1	ENSCAFG00845024226	ENSCAFT00845042767.1	protein_coding
20	55592500	C	T	stop_gained	HIGH	PLIN3	ENSCAFG00845014253	ENSCAFT00845025527.1	protein_coding
21	6650015	A	G	stop_gained	HIGH	MRE11	ENSCAFG00845020248	ENSCAFT00845035673.1	protein_coding
21	20287472	G	T	stop_gained	HIGH	ENSCAFG00845006537	ENSCAFG00845006537	ENSCAFT00845011656.1	protein_coding
21	26826589	C	T	stop_gained	HIGH	RRM1	ENSCAFG00845011642	ENSCAFT00845020658.1	protein_coding
21	28023135	G	T	stop_gained	HIGH	ENSCAFG00845019167	ENSCAFG00845019167	ENSCAFT00845033820.1	protein_coding
21	29052432	T	G	stop_gained	HIGH	OR51K2	ENSCAFG00845020889	ENSCAFT00845036834.1	protein_coding
21	41657952	C	T	stop_gained	HIGH	TPH1	ENSCAFG00845015143	ENSCAFT00845027067.1	protein_coding
22	52678718	G	A	stop_gained	HIGH	ENSCAFG00845027353	ENSCAFG00845027353	ENSCAFT00845048170.1	protein_coding
22	52804142	G	T	stop_gained	HIGH	ERCC5	ENSCAFG00845027609	ENSCAFT00845048699.1	protein_coding
22	58174763	A	G	stop_lost	HIGH	ENSCAFG00845028562	ENSCAFG00845028562	ENSCAFT00845050415.1	protein_coding
22	59186407	C	A	stop_gained	HIGH	COL4A1	ENSCAFG00845018797	ENSCAFT00845033606.1	protein_coding
23	23846422	C	T	stop_gained	HIGH	EFHB	ENSCAFG00845021296	ENSCAFT00845037597.1	protein_coding
23	23859395	G	A	stop_gained	HIGH	EFHB	ENSCAFG00845021296	ENSCAFT00845037597.1	protein_coding
23	24219436	G	A	stop_gained	HIGH	KCNH8	ENSCAFG00845021492	ENSCAFT00845037928.1	protein_coding
23	31757124	G	A	stop_gained	HIGH	ANAPC13	ENSCAFG00845030318	ENSCAFT00845053793.1	protein_coding
23	49041721	G	A	stop_gained	HIGH	DHX36	ENSCAFG00845020573	ENSCAFT00845036522.1	protein_coding
23	51276362	G	A	stop_gained	HIGH	CCNL1	ENSCAFG00845023534	ENSCAFT00845041643.1	protein_coding
24	7228460	G	A	stop_gained	HIGH	MACROD2	ENSCAFG00845021310	ENSCAFT00845037616.1	protein_coding
24	34395425	G	T	stop_gained	HIGH	ZNF334	ENSCAFG00845019229	ENSCAFT00845033908.1	protein_coding
24	35040748	T	C	stop_gained	HIGH	ZMYND8	ENSCAFG00845020959	ENSCAFT00845038714.1	protein_coding
24	47521475	C	T	stop_gained	HIGH	OGFR	ENSCAFG00845017856	ENSCAFT00845031663.1	protein_coding
25	9086944	C	T	stop_gained	HIGH	HSPH1	ENSCAFG00845021081	ENSCAFT00845037375.1	protein_coding
25	26497544	G	A	stop_gained	HIGH	BLK	ENSCAFG00845019394	ENSCAFT00845034333.1	protein_coding
25	37519161	T	C	stop_lost	HIGH	ENSCAFG00845029573	ENSCAFG00845029573	ENSCAFT00845052370.1	protein_coding
25	44681823	C	T	stop_gained	HIGH	GIGYF2	ENSCAFG00845026406	ENSCAFT00845046587.1	protein_coding
25	51400537	A	G	stop_lost	HIGH	PPP1R7	ENSCAFG00845022243	ENSCAFT00845039236.1	protein_coding
26	10660635	G	A	stop_gained	HIGH	OAS3	ENSCAFG00845022113	ENSCAFT00845039026.1	protein_coding
26	10823606	G	A	stop_gained	HIGH	IQCD	ENSCAFG00845023086	ENSCAFT00845040733.1	protein_coding
26	24628354	G	A	stop_gained	HIGH	PIK3IP1	ENSCAFG00845022796	ENSCAFT00845040251.1	protein_coding
26	29677977	A	T	stop_gained	HIGH	SMIM15	ENSCAFG00845022852	ENSCAFT00845040324.1	protein_coding
26	31782807	G	A	stop_gained	HIGH	ENSCAFG00845022358	ENSCAFG00845022358	ENSCAFT00845039484.1	protein_coding
26	32225900	G	A	stop_gained	HIGH	ENSCAFG00845025717	ENSCAFG00845025717	ENSCAFT00845045396.1	protein_coding

26	32227931	G	A	stop_gained	HIGH	ENSCAFG00845025717	ENSCAFG00845025717	ENSCAFT00845045396.1	protein_coding
27	65659	A	G	stop_gained	HIGH	OR6C6	ENSCAFG00845029997	ENSCAFT00845053141.1	protein_coding
27	208762	A	T	stop_gained	HIGH	OR9K2C	ENSCAFG00845015464	ENSCAFT00845027559.1	protein_coding
27	4443556	C	T	stop_gained	HIGH	ENSCAFG00845017048	ENSCAFG00845017048	ENSCAFT00845030170.1	protein_coding
27	25818874	G	A	stop_gained	HIGH	GOLT1B	ENSCAFG00845014813	ENSCAFT00845026539.1	protein_coding
28	11248509	G	A	stop_gained	HIGH	AVPI1	ENSCAFG00845030048	ENSCAFT00845053231.1	protein_coding
28	16763175	C	T	stop_gained	HIGH	SLK	ENSCAFG00845028335	ENSCAFT00845050024.1	protein_coding
28	30501711	C	A	stop_gained	HIGH	MCMBP	ENSCAFG00845017945	ENSCAFT00845031802.1	protein_coding
28	30552358	G	A	stop_gained	HIGH	SEC23IP	ENSCAFG00845018243	ENSCAFT00845032298.1	protein_coding
29	31505725	G	T	stop_gained	HIGH	ENSCAFG00845015800	ENSCAFG00845015800	ENSCAFT00845028322.1	protein_coding
29	31763362	T	G	stop_gained	HIGH	ENSCAFG00845016085	ENSCAFG00845016085	ENSCAFT00845028620.1	protein_coding
29	38992984	C	T	stop_gained	HIGH	PDP1	ENSCAFG00845014567	ENSCAFT00845026082.1	protein_coding
29	39537486	C	T	stop_gained	HIGH	ESRP1	ENSCAFG00845015323	ENSCAFT00845027396.1	protein_coding
29	40959845	G	A	stop_gained	HIGH	MTERF3	ENSCAFG00845016723	ENSCAFT00845029642.1	protein_coding
30	7098906	G	A	stop_gained	HIGH	FSIP1	ENSCAFG00845026703	ENSCAFT00845047052.1	protein_coding
30	35809877	C	T	stop_gained	HIGH	MYO9A	ENSCAFG00845023099	ENSCAFT00845040808.1	protein_coding
31	21157465	C	T	stop_gained	HIGH	MRPL39	ENSCAFG00845014739	ENSCAFT00845026352.1	protein_coding
31	24069007	C	T	stop_gained	HIGH	LTN1	ENSCAFG00845018360	ENSCAFT00845032470.1	protein_coding
31	37186771	G	A	stop_gained	HIGH	HSF2BP	ENSCAFG00845017775	ENSCAFT00845031506.1	protein_coding
32	3274335	G	A	stop_gained	HIGH	BMP2K	ENSCAFG00845016378	ENSCAFT00845029141.1	protein_coding
32	26355025	C	A	stop_gained	HIGH	TET2	ENSCAFG00845027576	ENSCAFT00845048702.1	protein_coding
33	14045350	C	T	stop_gained&	HIGH	DZIP3	ENSCAFG00845026061	ENSCAFT00845046216.1	protein_coding
33	17015227	G	A	stop_gained	HIGH	SLC9C1	ENSCAFG00845029039	ENSCAFT00845051395.1	protein_coding
33	25203065	G	A	stop_gained	HIGH	GOLGB1	ENSCAFG00845021329	ENSCAFT00845037854.1	protein_coding
34	3956111	G	A	stop_gained	HIGH	ATPCKMT	ENSCAFG00845021964	ENSCAFT00845038750.1	protein_coding
34	11968563	G	A	stop_gained&	HIGH	PLEKHG4B	ENSCAFG00845015302	ENSCAFT00845027312.1	protein_coding
34	13814128	C	T	stop_gained	HIGH	TTC14	ENSCAFG00845018663	ENSCAFT00845033015.1	protein_coding
34	34453224	G	A	stop_gained	HIGH	ACTRT3	ENSCAFG00845020716	ENSCAFT00845036511.1	protein_coding
35	24337886	C	T	stop_gained	HIGH	H2AC9	ENSCAFG00845026196	ENSCAFT00845046205.1	protein_coding
35	24741388	C	T	stop_gained	HIGH	ENSCAFG00845015324	ENSCAFG00845015324	ENSCAFT00845027334.1	protein_coding
35	25952195	C	G	stop_gained	HIGH	GPX5	ENSCAFG00845017417	ENSCAFT00845030890.1	protein_coding
36	5213428	G	A	stop_gained	HIGH	BAZ2B	ENSCAFG00845028154	ENSCAFT00845049714.1	protein_coding
36	5732568	C	T	stop_gained	HIGH	LY75	ENSCAFG00845028773	ENSCAFT00845050849.1	protein_coding
36	11672367	C	A	start_lost	HIGH	SCN7A	ENSCAFG00845018286	ENSCAFT00845032596.1	protein_coding
36	14440861	A	T	stop_gained	HIGH	PPIG	ENSCAFG00845023620	ENSCAFT00845041713.1	protein_coding
36	14567152	C	T	stop_gained	HIGH	ENSCAFG00845023945	ENSCAFG00845023945	ENSCAFT00845042270.1	protein_coding
36	22313522	T	A	stop_gained	HIGH	TTN	ENSCAFG00845023220	ENSCAFT00845041275.1	protein_coding
36	25937114	C	T	stop_gained	HIGH	DNAJC10	ENSCAFG00845015761	ENSCAFT00845028118.1	protein_coding
36	26266766	A	G	stop_gained	HIGH	ENSCAFG00845016301	ENSCAFG00845016301	ENSCAFT00845028959.1	protein_coding
36	27681836	A	T	stop_gained	HIGH	ZNF804A	ENSCAFG00845016901	ENSCAFT00845029935.1	protein_coding

37	5604466	G	A	stop_gained	HIGH	DNAH7	ENSCAFG00845021093	ENSCAFT00845037932.1	protein_coding
37	25882221	G	A	stop_gained	HIGH	ENSCAFG00845030088	ENSCAFG00845030088	ENSCAFT00845053316.1	protein_coding
38	2098963	T	C	start_lost	HIGH	ENSCAFG00845027204	ENSCAFG00845027204	ENSCAFT00845047933.1	protein_coding
38	2876430	A	G	stop_lost	HIGH	CFH	ENSCAFG00845029192	ENSCAFT00845052101.1	protein_coding
38	17048639	G	A	stop_gained	HIGH	FAM177B	ENSCAFG00845030578	ENSCAFT00845054237.1	protein_coding
X	11588776	G	C	stop_gained	HIGH	VEGFD	ENSCAFG00845029554	ENSCAFT00845052335.1	protein_coding
X	16068601	G	A	stop_gained	HIGH	RPS6KA3	ENSCAFG00845029219	ENSCAFT00845051805.1	protein_coding