

Data S1. Chromosome-wide imprinted XCI status profile and Illumina RNA-seq SNP counts in opossum fetal brain and EEM.

Data S1A. SNP count summary for escaper genes from fetal brain and EEM RNA-seq data.

SNP_ID	ref allele	alter allele	gene name	selected for pyro	A0571_b1 (LL2xLL1, brain)				A0571_b4 (LL2xLL1, brain)				A0579_b3 (LL1xLL2, brain)				A0579_b4 (LL1xLL2, brain)			
					info*	ref count	alter count	ref %	info	ref count	alter count	ref %	info	ref count	alter count	ref %	info	ref count	alter count	ref %
OMSNP0154757	G	A	FLNA		Y	44	135	24.58%	Y	36	117	23.53%	Y	144	40	78.26%	Y	77	19	80.21%
OMSNP0154764	T	C	FLNA		N	0	240	0.00%	N	1	219	0.45%	Y	193	50	79.42%	Y	96	34	73.85%
OMSNP0154775	G	A	FLNA		N	0	186	0.00%	N	1	168	0.59%	Y	133	54	71.12%	Y	75	25	75.00%
OMSNP0154784	A	G	FLNA	Y	Y	41	153	21.13%	Y	46	143	24.34%	Y	148	65	69.48%	Y	88	34	72.13%
OMSNP0154821	C	T	FLNA		Y	59	187	23.98%	Y	32	128	20.00%	N	218	0	100.00%	N	147	0	100.00%
OMSNP0154825	C	T	FLNA		N	0	231	0.00%	N	0	154	0.00%	Y	208	68	75.36%	Y	138	31	81.66%
OMSNP0154834	T	C	FLNA		Y	103	362	22.15%	Y	81	220	26.91%	Y	386	118	76.59%	Y	184	49	78.97%
chrX_3167321	C	T	RPL10	Y	Y	2934	6967	29.63%	Y	2104	4812	30.42%	N	10668	19	99.82%	N	7753	20	99.74%
OMSNP0154896	T	C	PLXNA3		Y	7	18	28.00%	Y	10	58	14.71%	N	36	0	100.00%	N	44	0	100.00%
OMSNP0154900	G	A	PLXNA3		Y	5	36	12.20%	Y	10	53	15.87%	N	41	0	100.00%	N	49	0	100.00%
OMSNP0154902	A	G	PLXNA3	Y	Y	6	23	20.69%	Y	6	50	10.71%	N	47	0	100.00%	N	37	0	100.00%
OMSNP0222540	G	A	G6PD		Y	26	243	9.67%	Y	16	211	7.05%	N	268	0	100.00%	N	281	0	100.00%
OMSNP0154933	G	A	G6PD	Y	Y	16	231	6.48%	Y	15	192	7.25%	N	225	0	100.00%	N	221	0	100.00%
OMSNP0154944	C	T	IKBKKG		N	0	101	0.00%	N	0	78	0.00%	Y	75	20	78.95%	Y	44	17	72.13%
OMSNP0154946	A	G	IKBKKG		Y	97	23	80.83%	Y	66	16	80.49%	N	121	0	100.00%	N	57	0	100.00%
OMSNP0154949	C	T	IKBKKG		N	0	80	0.00%	N	0	47	0.00%	Y	73	22	76.84%	Y	43	16	72.88%
OMSNP0154950	G	A	IKBKKG		Y	102	30	77.27%	Y	62	16	79.49%	N	134	0	100.00%	N	95	0	100.00%
OMSNP0154954	C	T	IKBKKG	Y	N	0	60	0.00%	N	0	42	0.00%	Y	54	13	80.60%	Y	33	10	76.74%
OMSNP0154969	C	T	DKC1	Y	N	1	111	0.89%	N	0	125	0.00%	Y	131	44	74.86%	Y	109	56	66.06%
OMSNP0155101	T	C	YIPF6		Y	6	29	17.14%	Y	10	38	20.83%	Y	40	24	62.50%	Y	16	5	76.19%
OMSNP0155102	C	A	YIPF6		Y	14	38	26.92%	Y	14	39	26.42%	Y	45	13	77.59%	Y	40	7	85.11%
OMSNP0155104	T	C	YIPF6		Y	30	8	78.95%	Y	35	8	81.40%	N	30	0	100.00%	N	12	0	100.00%
OMSNP0155107	T	C	YIPF6		N	0	54	0.00%	N	0	56	0.00%	Y	58	16	78.38%	Y	34	16	68.00%
OMSNP0155108	G	A	YIPF6		N	1	38	2.56%	N	0	33	0.00%	Y	32	14	69.57%	Y	28	12	70.00%
OMSNP0155110	A	G	YIPF6	Y	Y	10	41	19.61%	Y	13	39	25.00%	Y	41	12	77.36%	Y	46	7	86.79%
OMSNP0155301	C	T	NUP62CL	Y	N	1	378	0.26%	N	2	739	0.27%	Y	397	84	82.54%	Y	826	106	88.63%
OMSNP0222672	C	T	NUP62CL		Y	61	322	15.93%	Y	96	604	13.71%	N	513	0	100.00%	N	902	0	100.00%
OMSNP0155430	A	G	HCFC1		N	0	68	0.00%	N	0	116	0.00%	Y	36	17	67.92%	Y	55	18	75.34%
OMSNP0155431	C	T	HCFC1	Y	Y	5	34	12.82%	Y	17	54	23.94%	Y	23	11	67.65%	Y	32	7	82.05%
OMSNP0155432	T	C	HCFC1		N	1	21	4.55%	N	2	38	5.00%	Y	22	5	81.48%	Y	16	5	76.19%
OMSNP0155433	T	G	IRAK1	Y	N	0	25	0.00%	N	0	5	0.00%	Y	18	6	75.00%	Y	11	7	61.11%
OMSNP0155434	C	T	IRAK1	Y	N	0	17	0.00%	N	0	7	0.00%	Y	9	7	56.25%	Y	8	3	72.73%
OMSNP0155435	T	G	IRAK1		N	0	19	0.00%	N	0	17	0.00%	Y	11	4	73.33%	Y	13	3	81.25%
OMSNP0155437	A	G	MECP2		N	9	0	100.00%	N	22	0	100.00%	Y	13	7	65.00%	Y	17	6	73.91%
OMSNP0155438	G	A	MECP2		Y	5	7	41.67%	Y	19	4	82.61%	N	28	0	100.00%	N	27	0	100.00%

SNP_ID	ref allele	alter allele	gene name	selected for pyro	A0571_b1 (LL2xLL1, brain)				A0571_b4 (LL2xLL1, brain)				A0579_b3 (LL1xLL2, brain)				A0579_b4 (LL1xLL2, brain)			
					info*	ref count	alter count	ref %	info	ref count	alter count	ref %	info	ref count	alter count	ref %	info	ref count	alter count	ref %
OMSNP0222738	C	T	MECP2	Y	Y	5	6	45.45%	Y	3	14	17.65%	Y	10	6	62.50%	Y	12	8	60.00%
OMSNP0155439	C	T	MECP2		N	0	12	0.00%	N	0	24	0.00%	Y	9	5	64.29%	Y	16	4	80.00%
OMSNP0155440	C	T	MECP2		Y	26	8	76.47%	Y	30	19	61.22%	N	29	0	100.00%	N	38	0	100.00%
OMSNP0155441	G	A	MECP2		Y	12	6	66.67%	Y	27	4	87.10%	N	22	0	100.00%	N	17	0	100.00%
OMSNP0155442	G	A	MECP2		Y	15	5	75.00%	Y	31	9	77.50%	N	15	0	100.00%	N	38	0	100.00%
OMSNP0155979	G	A	FRMD7	Y	N	1	48	2.04%	N	0	59	0.00%	Y	11	37	22.92%	Y	20	29	40.82%
OMSNP0155980	T	C	FRMD7	Y	N	0	34	0.00%	N	0	42	0.00%	Y	14	18	43.75%	Y	17	27	38.64%
OMSNP0156035	A	G	PHF6	Y	Y	13	3	81.25%	Y	11	6	64.71%	N	0	33	0.00%	N	2	33	5.71%
OMSNP0156061	T	G	FAM122B	Y	Y	10	18	35.71%	Y	11	24	31.43%	Y	17	9	65.38%	Y	32	8	80.00%
OMSNP0156062	G	A	FAM122A		Y	5	34	12.82%	Y	9	57	13.64%	N	43	0	100.00%	Y	55	10	84.62%
OMSNP0222999	A	G	FAM122A		Y	1	5	16.67%	Y	3	9	25.00%	N	10	0	100.00%	N	1	1	50.00%
OMSNP0156119	A	G	MTMR1		Y	9	46	16.36%	Y	3	46	6.12%	Y	31	12	72.09%	Y	26	7	78.79%
OMSNP0156120	T	C	MTMR1	Y	Y	5	26	16.13%	Y	3	33	8.33%	Y	18	17	51.43%	Y	19	8	70.37%
OMSNP0156121	C	T	MTMR1		N	82	0	100.00%	N	82	0	100.00%	Y	73	20	78.49%	Y	76	10	88.37%
OMSNP0223017	G	C	MTMR1		Y	4	6	40.00%	Y	3	12	20.00%	N	15	0	100.00%	N	4	0	100.00%
OMSNP0156126	A	G	CD99L2	Y	Y	40	46	46.51%	Y	73	68	51.77%	N	71	0	100.00%	N	158	0	100.00%
OMSNP0156138	C	T	HMGB3	Y	Y	225	155	59.21%	Y	308	223	58.00%	N	486	0	100.00%	N	618	0	100.00%
OMSNP0156204	A	G	RBMX		N	720	0	100.00%	N	1200	0	100.00%	Y	698	322	68.43%	Y	1086	464	70.06%
OMSNP0156207	G	C	RBMX	Y	Y	318	151	67.80%	Y	516	224	69.73%	Y	181	428	29.72%	Y	309	608	33.70%
OMSNP0156415	A	T	ATRX		Y	16	52	23.53%	Y	7	76	8.43%	N	75	0	100.00%	N	82	0	100.00%
OMSNP0156416	G	A	ATRX	Y	Y	19	52	26.76%	Y	11	73	13.10%	N	80	0	100.00%	N	84	0	100.00%
OMSNP0156832	C	T	ALAS2	Y	Y	24	111	17.78%	Y	8	39	17.02%	N	373	0	100.00%	N	67	0	100.00%
OMSNP0156861	T	G	TAF1		Y	13	4	76.47%	Y	14	9	60.87%	Y	14	11	56.00%	Y	18	14	56.25%
OMSNP0156862	A	G	TAF1	Y	Y	6	13	31.58%	Y	7	29	19.44%	Y	21	3	87.50%	Y	28	7	80.00%
OMSNP0156865	G	A	NONO	Y	Y	73	752	8.85%	Y	90	1105	7.53%	Y	954	135	87.60%	Y	947	118	88.92%

*: Informative SNP in this individual.

SNP_ID	ref allele	alter allele	gene name	selected for pyro	A0580_b1 (LL1xLL1, brain)				A0580_b5 (LL1xLL1, brain)				A0572_b1 (LL2xLL2, brain)				A0572_b3 (LL2xLL2, brain)			
					info*	ref count	alter count	ref %	info	ref count	alter count	ref %	info	ref count	alter count	ref %	info	ref count	alter count	ref %
OMSNP0154757	G	A	FLNA		N	127	0	100.00%	M**	217	0	100.00%	Y	78	31	71.56%	M	132	0	100.00%
OMSNP0154764	T	C	FLNA		Y	134	56	70.53%	M	249	0	100.00%	N	2	137	1.44%	M	2	157	1.26%
OMSNP0154775	G	A	FLNA		Y	119	62	65.75%	M	235	0	100.00%	N	0	134	0.00%	M	0	140	0.00%
OMSNP0154784	A	G	FLNA	Y	N	163	0	100.00%	M	229	0	100.00%	Y	97	33	74.62%	M	148	0	100.00%
OMSNP0154821	C	T	FLNA		N	145	0	100.00%	M	202	0	100.00%	N	146	0	100.00%	M	132	0	100.00%
OMSNP0154825	C	T	FLNA		Y	122	43	73.94%	M	244	0	100.00%	N	0	129	0.00%	M	2	155	1.27%
OMSNP0154834	T	C	FLNA		N	268	0	100.00%	M	397	0	100.00%	N	1	291	0.34%	M	2	298	0.67%
chrX_3167321	C	T	RPL10	Y	N	6396	3	99.95%	M	5656	2	99.96%	N	6633	5	99.92%	M	4474	3	99.93%
OMSNP0154896	T	C	PLXNA3		N	21	0	100.00%	M	24	0	100.00%	N	19	0	100.00%	M	22	0	100.00%
OMSNP0154900	G	A	PLXNA3		N	40	0	100.00%	M	28	0	100.00%	N	23	0	100.00%	M	34	0	100.00%
OMSNP0154902	A	G	PLXNA3	Y	N	24	0	100.00%	M	32	0	100.00%	N	17	0	100.00%	M	22	0	100.00%
OMSNP0222540	G	A	G6PD		N	138	0	100.00%	M	167	0	100.00%	Y	25	115	17.86%	M	0	97	0.00%
OMSNP0154933	G	A	G6PD	Y	N	144	0	100.00%	M	197	0	100.00%	N	1	115	0.86%	M	2	104	1.89%
OMSNP0154944	C	T	IKBKKG		Y	52	19	73.24%	M	67	0	100.00%	Y	57	16	78.08%	M	39	0	100.00%
OMSNP0154946	A	G	IKBKKG		Y	48	9	84.21%	M	57	0	100.00%	N	76	0	100.00%	M	46	0	100.00%
OMSNP0154949	C	T	IKBKKG		Y	45	12	78.95%	M	63	0	100.00%	Y	40	10	80.00%	M	37	0	100.00%
OMSNP0154950	G	A	IKBKKG		Y	67	25	72.83%	M	109	0	100.00%	N	76	0	100.00%	M	47	0	100.00%
OMSNP0154954	C	T	IKBKKG	Y	Y	44	13	77.19%	M	60	0	100.00%	N	0	39	0.00%	M	0	39	0.00%
OMSNP0154969	C	T	DKC1	Y	Y	151	58	72.25%	M	220	0	100.00%	N	3	192	1.54%	M	2	146	1.35%
OMSNP0155101	T	C	YIPF6		N	39	0	100.00%	M	54	0	100.00%	N	1	79	1.25%	M	0	49	0.00%
OMSNP0155102	C	A	YIPF6		N	40	0	100.00%	M	45	0	100.00%	Y	21	7	75.00%	M	45	0	100.00%
OMSNP0155104	T	C	YIPF6		Y	41	13	75.93%	M	51	0	100.00%	Y	10	32	23.81%	M	0	35	0.00%
OMSNP0155107	T	C	YIPF6		Y	17	10	62.96%	M	33	0	100.00%	N	0	27	0.00%	M	0	26	0.00%
OMSNP0155108	G	A	YIPF6		N	4	2	66.67%	M	11	0	100.00%	N	0	8	0.00%	M	0	10	0.00%
OMSNP0155110	A	G	YIPF6	Y	N	49	0	100.00%	M	49	0	100.00%	Y	37	16	69.81%	M	26	0	100.00%
OMSNP0155301	C	T	NUP62CL	Y	Y	423	100	80.88%	M	514	0	100.00%	N	0	417	0.00%	M	1	308	0.32%
OMSNP0222672	C	T	NUP62CL		N	478	0	100.00%	M	480	0	100.00%	Y	98	241	28.91%	M	0	247	0.00%
OMSNP0155430	A	G	HCFC1		Y	51	29	63.75%	M	88	0	100.00%	N	0	41	0.00%	M	1	70	1.41%
OMSNP0155431	C	T	HCFC1	Y	N	32	0	100.00%	M	56	0	100.00%	N	0	22	0.00%	M	0	32	0.00%
OMSNP0155432	T	C	HCFC1		Y	19	4	82.61%	M	38	0	100.00%	N	0	11	0.00%	M	1	15	6.25%
OMSNP0155433	T	G	IRAK1	Y	Y	7	4	63.64%	M	19	0	100.00%	N	0	13	0.00%	M	0	15	0.00%
OMSNP0155434	C	T	IRAK1	Y	Y	9	4	69.23%	M	17	0	100.00%	N	0	8	0.00%	M	0	11	0.00%
OMSNP0155435	T	G	IRAK1		Y	12	4	75.00%	M	41	0	100.00%	N	0	23	0.00%	M	0	11	0.00%
OMSNP0155437	A	G	MECP2		N	11	0	100.00%	M	7	0	100.00%	N	0	11	0.00%	M	0	14	0.00%
OMSNP0155438	G	A	MECP2		Y	14	5	73.68%	M	18	0	100.00%	N	11	0	100.00%	M	14	0	100.00%
OMSNP0222738	C	T	MECP2	Y	N	9	0	100.00%	M**	7	0	100.00%	N	0	9	0.00%	M	0	5	0.00%
OMSNP0155439	C	T	MECP2		Y	7	2	77.78%	M	8	0	100.00%	N	0	2	0.00%	M	0	9	0.00%
OMSNP0155440	C	T	MECP2		Y	11	2	84.62%	M	14	0	100.00%	N	22	0	100.00%	M	12	0	100.00%

SNP_ID	ref allele	alter allele	gene name	selected for pyro	A0580_b1 (LL1xLL1, brain)				A0580_b5 (LL1xLL1, brain)				A0572_b1 (LL2xLL2, brain)				A0572_b3 (LL2xLL2, brain)			
					info*	ref count	alter count	ref %	info	ref count	alter count	ref %	info	ref count	alter count	ref %	info	ref count	alter count	ref %
OMSNP0155441	G	A	MECP2		Y	11	6	64.71%	M	15	0	100.00%	N	6	0	100.00%	M	8	0	100.00%
OMSNP0155442	G	A	MECP2		Y	7	12	36.84%	M	11	0	100.00%	N	23	0	100.00%	M	14	0	100.00%
OMSNP0155979	G	A	FRMD7	Y	Y	17	26	39.53%	M	19	0	100.00%	Y	12	27	30.77%	M	14	0	100.00%
OMSNP0155980	T	C	FRMD7	Y	Y	11	21	34.38%	M	28	0	100.00%	Y	21	20	51.22%	M	24	0	100.00%
OMSNP0156035	A	G	PHF6	Y	Y	32	4	88.89%	M	36	0	100.00%	Y	27	8	77.14%	M	25	0	100.00%
OMSNP0156061	T	G	FAM122B	Y	N	20	0	100.00%	M	21	0	100.00%	N	0	29	0.00%	M	0	19	0.00%
OMSNP0156062	G	A	FAM122A		N	29	0	100.00%	M	29	0	100.00%	N	0	24	0.00%	M	0	38	0.00%
OMSNP0222999	A	G	FAM122A		N	20	0	100.00%	M	35	0	100.00%	N	0	42	0.00%	M	0	22	0.00%
OMSNP0156119	A	G	MTMR1		N	34	0	100.00%	M	28	0	100.00%	N	0	58	0.00%	M	1	25	3.85%
OMSNP0156120	T	C	MTMR1	Y	N	42	0	100.00%	M	37	0	100.00%	N	0	40	0.00%	M	0	29	0.00%
OMSNP0156121	C	T	MTMR1		N	44	0	100.00%	M	46	0	100.00%	Y	47	10	82.46%	M	0	29	0.00%
OMSNP0223017	G	C	MTMR1		N	24	0	100.00%	M	30	0	100.00%	Y	10	24	29.41%	M	20	0	100.00%
OMSNP0156126	A	G	CD99L2	Y	N	21	0	100.00%	M	36	0	100.00%	Y	20	20	50.00%	M	37	0	100.00%
OMSNP0156138	C	T	HMGB3	Y	N	434	0	100.00%	M	287	0	100.00%	Y	293	167	63.70%	M	172	0	100.00%
OMSNP0156204	A	G	RBMX		N	1053	0	100.00%	M	1149	0	100.00%	Y	708	271	72.32%	M	836	0	100.00%
OMSNP0156207	G	C	RBMX	Y	Y	536	225	70.43%	M	964	0	100.00%	N	750	0	100.00%	M	607	0	100.00%
OMSNP0156415	A	T	ATRX		N	50	0	100.00%	M	59	0	100.00%	Y	7	37	15.91%	M	38	0	100.00%
OMSNP0156416	G	A	ATRX	Y	N	44	0	100.00%	M	50	0	100.00%	Y	10	33	23.26%	M	0	49	0.00%
OMSNP0156832	C	T	ALAS2	Y	N	124	0	100.00%	M	157	0	100.00%	N	1	91	1.09%	M	107	0	100.00%
OMSNP0156861	T	G	TAF1		Y	6	8	42.86%	M	16	0	100.00%	N	11	0	100.00%	M	16	0	100.00%
OMSNP0156862	A	G	TAF1	Y	Y	8	12	40.00%	M	0	21	0.00%	N	0	12	0.00%	M	0	11	0.00%
OMSNP0156865	G	A	NONO	Y	Y	131	731	15.20%	M	1	1119	0.09%	N	1	1045	0.10%	M	0	941	0.00%
OMSNP0223627	T	C	CENPI	Y	Y	22	56	28.21%	M	0	52	0.00%	N	39	0	100.00%	M	36	0	100.00%

*: Informative SNP in this individual.

**: Male control sample.

SNP_ID	ref allele	alter allele	gene name	selected for pyro	A0571_p1 (LL2xLL1, EEM)				A0571_p4 (LL2xLL1, EEM)				A0579_p3 (LL1xLL2, EEM)				A0579_p4 (LL1xLL2, EEM)			
					info*	ref count	alter count	ref %	info	ref count	alter count	ref %	info	ref count	alter count	ref %	info	ref count	alter count	ref %
OMSNP0154757	G	A	FLNA		Y	102	457	18.25%	Y	57	279	16.96%	Y	123	43	74.10%	Y	95	29	76.61%
OMSNP0154764	T	C	FLNA		N	0	781	0.00%	N	1	537	0.19%	Y	202	60	77.10%	Y	131	57	69.68%
OMSNP0154775	G	A	FLNA		N	1	607	0.16%	N	0	397	0.00%	Y	204	62	76.69%	Y	109	31	77.86%
OMSNP0154784	A	G	FLNA	Y	Y	161	577	21.82%	Y	98	394	19.92%	Y	159	70	69.43%	Y	155	46	77.11%
OMSNP0154821	C	T	FLNA		Y	140	626	18.28%	Y	70	384	15.42%	N	333	0	100.00%	N	282	0	100.00%
OMSNP0154825	C	T	FLNA		N	1	827	0.12%	N	2	454	0.44%	Y	283	72	79.72%	Y	230	77	74.92%
OMSNP0154834	T	C	FLNA		Y	357	1134	23.94%	Y	156	702	18.18%	Y	453	153	74.75%	Y	394	124	76.06%
chrX_3167321	C	T	RPL10	Y	Y	2222	4850	31.42%	Y	1597	3751	29.86%	N	6936	18	99.74%	N	6356	29	99.55%
OMSNP0154900	G	A	PLXNA3		Y [#]	0	16	0.00%	Y	1	5	16.67%	N	9	0	100.00%	N	7	0	100.00%
OMSNP0154902	A	G	PLXNA3	Y	Y [#]	0	6	0.00%	Y	1	3	25.00%	N	1	0	100.00%	N	7	0	100.00%
OMSNP0222540	G	A	G6PD		Y	71	663	9.67%	Y	50	677	6.88%	N	773	0	100.00%	N	673	0	100.00%
OMSNP0154933	G	A	G6PD	Y	Y	50	641	7.24%	Y	46	614	6.97%	N	661	0	100.00%	N	558	0	100.00%
OMSNP0154944	C	T	IKBKKG		N	0	125	0.00%	N	0	109	0.00%	Y	67	26	72.04%	Y	44	11	80.00%
OMSNP0154946	A	G	IKBKKG		Y	110	19	85.27%	Y	91	19	82.73%	N	130	0	100.00%	N	68	0	100.00%
OMSNP0154949	C	T	IKBKKG		N	0	83	0.00%	N	0	101	0.00%	Y	67	9	88.16%	Y	43	15	74.14%
OMSNP0154950	G	A	IKBKKG		Y	153	32	82.70%	Y	139	26	84.24%	N	148	0	100.00%	N	83	0	100.00%
OMSNP0154954	C	T	IKBKKG	Y	N	0	99	0.00%	N	0	64	0.00%	Y	57	6	90.48%	Y	35	12	74.47%
OMSNP0154956	C	T	IKBKKG		N	0	78	0.00%	N	0	54	0.00%	Y	53	16	76.81%	Y	30	11	73.17%
OMSNP0154969	C	T	DKC1	Y	N	0	43	0.00%	N	0	26	0.00%	Y	19	7	73.08%	Y	14	4	77.78%
OMSNP0155100	G	A	YIPF6		N	0	47	0.00%	N	0	75	0.00%	Y	36	8	81.82%	Y	39	7	84.78%
OMSNP0155102	C	A	YIPF6		Y	8	42	16.00%	Y	7	38	15.56%	Y	31	7	81.58%	Y	49	14	77.78%
OMSNP0155104	T	C	YIPF6		Y	13	3	81.25%	Y	36	12	75.00%	N	18	0	100.00%	N	13	0	100.00%
OMSNP0155107	T	C	YIPF6		N	0	65	0.00%	N	0	41	0.00%	Y	36	10	78.26%	Y	36	4	90.00%
OMSNP0155108	G	A	YIPF6		N	0	48	0.00%	N	0	21	0.00%	Y	26	6	81.25%	Y	19	4	82.61%
OMSNP0155110	A	G	YIPF6	Y	Y	11	57	16.18%	Y	6	42	12.50%	Y	24	5	82.76%	Y	32	8	80.00%
OMSNP0155301	C	T	NUP62CL	Y	N	1	158	0.63%	N	0	139	0.00%	Y	126	33	79.25%	Y	80	20	80.00%
OMSNP0222672	C	T	NUP62CL		Y	59	133	30.73%	Y	41	82	33.33%	N	154	0	100.00%	N	137	0	100.00%
OMSNP0155430	A	G	HCFC1		N	1	14	6.67%	N	0	16	0.00%	Y	11	1	91.67%	Y	9	2	81.82%
OMSNP0155431	C	T	HCFC1	Y	Y	1	6	14.29%	Y	2	9	18.18%	Y [#]	4	0	100.00%	Y	2	1	66.67%
OMSNP0155433	T	G	IRAK1	Y	N	0	12	0.00%	N	0	10	0.00%	Y	5	3	62.50%	Y	6	2	75.00%
OMSNP0155434	C	T	IRAK1	Y	N	0	10	0.00%	N	0	11	0.00%	Y	8	1	88.89%	Y	9	3	75.00%
OMSNP0155435	T	G	IRAK1		N	0	22	0.00%	N	0	11	0.00%	Y	11	1	91.67%	Y	8	1	88.89%
OMSNP0155438	G	A	MECP2		Y	3	2	60.00%	Y	1	2	33.33%	N	2	0	100.00%	N	11	0	100.00%
OMSNP0222738	C	T	MECP2	Y	Y [#]	0	2	0.00%	Y [#]	0	1	0.00%	Y	3	1	75.00%	Y	2	3	40.00%
OMSNP0155440	C	T	MECP2		Y	14	8	63.64%	Y	10	3	76.92%	N	7	0	100.00%	N	16	0	100.00%
OMSNP0155441	G	A	MECP2		Y	12	4	75.00%	Y	5	2	71.43%	N	7	0	100.00%	N	14	0	100.00%
OMSNP0155442	G	A	MECP2		Y	8	5	61.54%	Y	10	4	71.43%	N	7	0	100.00%	N	11	0	100.00%
OMSNP0155979	G	A	FRMD7	Y	N	0	34	0.00%	N	0	28	0.00%	Y	6	8	42.86%	Y	19	8	70.37%

SNP_ID	ref allele	alter allele	gene name	selected for pyro	A0571_p1 (LL2xLL1, EEM)				A0571_p4 (LL2xLL1, EEM)				A0579_p3 (LL1xLL2, EEM)				A0579_p4 (LL1xLL2, EEM)			
					info*	ref count	alter count	ref %	info	ref count	alter count	ref %	info	ref count	alter count	ref %	info	ref count	alter count	ref %
OMSNP0155980	T	C	<i>FRMD7</i>	Y	N	0	17	0.00%	N	0	23	0.00%	Y	6	19	24.00%	Y	14	5	73.68%
OMSNP0156035	A	G	<i>PHF6</i>		Y	9	2	81.82%	Y	6	6	50.00%	N	0	8	0.00%	N	2	12	14.29%
OMSNP0156061	T	G	<i>FAM122B</i>	Y	Y	3	8	27.27%	Y [#]	0	8	0.00%	Y	3	4	42.86%	Y	2	3	40.00%
OMSNP0156062	G	A	<i>FAM122A</i>		Y	3	21	12.50%	Y	1	9	10.00%	N	14	0	100.00%	Y	12	0	100.00%
OMSNP0156119	A	G	<i>MTMR1</i>		Y	11	20	35.48%	Y	8	20	28.57%	Y	18	3	85.71%	Y	16	6	72.73%
OMSNP0156120	T	C	<i>MTMR1</i>	Y	Y	5	27	15.63%	Y	5	17	22.73%	Y	15	8	65.22%	Y	7	1	87.50%
OMSNP0156121	C	T	<i>MTMR1</i>		N	58	0	100.00%	N	41	0	100.00%	Y	25	17	59.52%	Y	21	15	58.33%
OMSNP0223017	G	C	<i>MTMR1</i>		Y	1	2	33.33%	Y	3	11	21.43%	N	3	0	100.00%	N	6	0	100.00%
OMSNP0156126	A	G	<i>CD99L2</i>	Y	Y	14	26	35.00%	Y	13	22	37.14%	N	29	0	100.00%	N	37	0	100.00%
OMSNP0156138	C	T	<i>HMGB3</i>	Y	Y	32	17	65.31%	Y	21	16	56.76%	N	36	0	100.00%	N	36	0	100.00%
OMSNP0156204	A	G	<i>RBMX</i>		N	216	0	100.00%	N	163	0	100.00%	Y	125	34	78.62%	Y	130	32	80.25%
OMSNP0156207	G	C	<i>RBMX</i>	Y	Y	111	38	74.50%	Y	82	21	79.61%	Y	25	85	22.73%	Y	34	79	30.09%
OMSNP0156415	A	T	<i>ATRX</i>		Y	1	15	6.25%	Y	2	11	15.38%	N	12	0	100.00%	N	27	0	100.00%
OMSNP0156416	G	A	<i>ATRX</i>	Y	Y	1	32	3.03%	Y	2	19	9.52%	N	22	0	100.00%	N	19	0	100.00%
OMSNP0156832	C	T	<i>ALAS2</i>	Y	Y	101	665	13.19%	Y	48	274	14.91%	N	2348	0	100.00%	N	970	0	100.00%
OMSNP0156862	A	G	<i>TAF1</i>	Y	Y	5	5	50.00%	Y	4	5	44.44%	Y [#]	1	0	100.00%	Y	7	2	77.78%
OMSNP0156865	G	A	<i>NONO</i>	Y	Y	15	167	8.24%	Y	10	186	5.10%	Y	148	3	98.01%	Y	143	20	87.73%

*: informative SNP

#: inferred from brain RNA-seq data.

SNP_ID	ref allele	alter allele	gene name	selected for pyro	A0580_p1 (LL1xLL1, EEM)				A0580_p5 (LL1xLL1, EEM)				A0572_p1 (LL2xLL2, EEM)				A0572_p3 (LL2xLL2, EEM)			
					info*	ref count	alter count	ref %	info	ref count	alter count	ref %	info	ref count	alter count	ref %	info	ref count	alter count	ref %
OMSNP0154757	G	A	FLNA		N	712	0	100.00%	M**	330	0	100.00%	Y	271	99	73.24%	M**	382	0	100.00%
OMSNP0154764	T	C	FLNA		Y	639	225	73.96%	M	434	0	100.00%	N	1	523	0.19%	M	0	484	0.00%
OMSNP0154775	G	A	FLNA		Y	652	189	77.53%	M	358	0	100.00%	N	2	390	0.51%	M	2	392	0.51%
OMSNP0154784	A	G	FLNA	Y	N	881	0	100.00%	M	373	0	100.00%	Y	284	94	75.13%	M	421	0	100.00%
OMSNP0154821	C	T	FLNA		N	766	0	100.00%	M	425	0	100.00%	N	357	0	100.00%	M	351	0	100.00%
OMSNP0154825	C	T	FLNA		Y	673	175	79.36%	M	520	0	100.00%	N	0	358	0.00%	M	1	418	0.24%
OMSNP0154834	T	C	FLNA		N	1516	0	100.00%	M	872	0	100.00%	N	0	593	0.00%	M	0	819	0.00%
chrX_3167321	C	T	RPL10	Y	N	5217	3	99.94%	M	3798	4	99.89%	N	3845	2	99.95%	M	3521	12	99.66%
OMSNP0154900	G	A	PLXNA3		N	27	0	100.00%	M	17	0	100.00%	N	17	0	100.00%	M	5	0	100.00%
OMSNP0154902	A	G	PLXNA3	Y	N	17	0	100.00%	M	17	0	100.00%	N	9	0	100.00%	M	6	0	100.00%
OMSNP0222540	G	A	G6PD		N	493	0	100.00%	M	499	0	100.00%	Y	14	255	5.20%	M	2	347	0.57%
OMSNP0154933	G	A	G6PD	Y	N	460	0	100.00%	M	460	0	100.00%	N	0	225	0.00%	M	1	298	0.33%
OMSNP0154944	C	T	IKBK		Y	72	18	80.00%	M	45	0	100.00%	Y	51	9	85.00%	M	53	0	100.00%
OMSNP0154946	A	G	IKBK		Y	80	18	81.63%	M	86	0	100.00%	N	66	0	100.00%	M	76	0	100.00%
OMSNP0154949	C	T	IKBK		Y	67	24	73.63%	M	43	0	100.00%	Y	30	12	71.43%	M	50	0	100.00%
OMSNP0154950	G	A	IKBK		Y	87	33	72.50%	M	67	0	100.00%	N	62	0	100.00%	M	76	0	100.00%
OMSNP0154954	C	T	IKBK	Y	Y	47	11	81.03%	M	39	0	100.00%	N	1	31	3.13%	M	1	51	1.92%
OMSNP0154956	C	T	IKBK		Y	54	11	83.08%	M	32	0	100.00%	Y	20	10	66.67%	M	39	0	100.00%
OMSNP0154969	C	T	DKC1	Y	Y	134	53	71.66%	M	126	0	100.00%	N	0	127	0.00%	M	0	131	0.00%
OMSNP0155100	G	A	YIPF6		Y	42	12	77.78%	M	42	0	100.00%	N	0	38	0.00%	M	1	46	2.13%
OMSNP0155102	C	A	YIPF6		N	46	0	100.00%	M	21	0	100.00%	Y	17	2	89.47%	M	32	0	100.00%
OMSNP0155104	T	C	YIPF6		Y	46	5	90.20%	M	26	0	100.00%	Y	10	44	18.52%	M	0	30	0.00%
OMSNP0155107	T	C	YIPF6		Y	20	3	86.96%	M	19	0	100.00%	N	0	31	0.00%	M	0	31	0.00%
OMSNP0155108	G	A	YIPF6		N	8	0	100.00%	M	11	0	100.00%	N	0	9	0.00%	M	0	4	0.00%
OMSNP0155110	A	G	YIPF6	Y	N	41	0	100.00%	M	24	0	100.00%	Y	23	7	76.67%	M	35	0	100.00%
OMSNP0155301	C	T	NUP62CL	Y	Y	224	48	82.35%	M	256	0	100.00%	N	2	166	1.19%	M	0	190	0.00%
OMSNP0222672	C	T	NUP62CL		N	285	0	100.00%	M	229	0	100.00%	Y	51	105	32.69%	M	2	144	1.37%
OMSNP0155430	A	G	HCFC1		Y	70	11	86.42%	M	26	0	100.00%	N	0	54	0.00%	M	0	31	0.00%
OMSNP0155431	C	T	HCFC1	Y	N	51	0	100.00%	M	14	0	100.00%	N	0	21	0.00%	M	0	17	0.00%
OMSNP0155433	T	G	IRAK1	Y	Y	27	6	81.82%	M**	12	0	100.00%	N	0	10	0.00%	M	0	13	0.00%
OMSNP0155434	C	T	IRAK1	Y	Y	9	2	81.82%	M	10	0	100.00%	N	0	10	0.00%	M	0	16	0.00%
OMSNP0155435	T	G	IRAK1		Y	20	10	66.67%	M	19	0	100.00%	N	0	19	0.00%	M	0	15	0.00%
OMSNP0155438	G	A	MECP2		Y	12	4	75.00%	M	3	0	100.00%	N	3	0	100.00%	M	7	0	100.00%
OMSNP0222738	C	T	MECP2	Y	N	5	0	100.00%	M	8	0	100.00%	N	0	2	0.00%	M	0	3	0.00%
OMSNP0155440	C	T	MECP2		Y	20	8	71.43%	M	18	0	100.00%	N	8	0	100.00%	M	23	0	100.00%
OMSNP0155441	G	A	MECP2		Y	10	10	50.00%	M	8	0	100.00%	N	7	0	100.00%	M	4	0	100.00%
OMSNP0155442	G	A	MECP2		Y	10	9	52.63%	M	7	0	100.00%	N	5	0	100.00%	M	9	0	100.00%
OMSNP0155979	G	A	FRMD7	Y	Y	12	11	52.17%	M	8	0	100.00%	Y	5	6	45.45%	M	11	0	100.00%

SNP_ID	ref allele	alter allele	gene name	selected for pyro	A0580_p1 (LL1xLL1, EEM)				A0580_p5 (LL1xLL1, EEM)				A0572_p1 (LL2xLL2, EEM)				A0572_p3 (LL2xLL2, EEM)			
					info*	ref count	alter count	ref %	info	ref count	alter count	ref %	info	ref count	alter count	ref %	info	ref count	alter count	ref %
OMSNP0155980	T	C	<i>FRMD7</i>	Y	Y	14	16	46.67%	M	6	0	100.00%	Y	4	7	36.36%	M	3	0	100.00%
OMSNP0156035	A	G	<i>PHF6</i>		Y	8	2	80.00%	M	12	0	100.00%	Y	5	2	71.43%	M	16	0	100.00%
OMSNP0156061	T	G	<i>FAM122B</i>	Y	N	14	0	100.00%	M	3	0	100.00%	N	0	11	0.00%	M	0	8	0.00%
OMSNP0156062	G	A	<i>FAM122A</i>		N	9	0	100.00%	M	9	0	100.00%	N	0	13	0.00%	M	0	6	0.00%
OMSNP0156119	A	G	<i>MTMR1</i>		N	36	0	100.00%	M	26	0	100.00%	N	0	22	0.00%	M	1	23	4.17%
OMSNP0156120	T	C	<i>MTMR1</i>	Y	N	33	0	100.00%	M	15	0	100.00%	N	0	32	0.00%	M	0	20	0.00%
OMSNP0156121	C	T	<i>MTMR1</i>		N	34	0	100.00%	M	38	0	100.00%	Y	32	13	71.11%	M	1	22	4.35%
OMSNP0223017	G	C	<i>MTMR1</i>		N	23	0	100.00%	M	26	0	100.00%	Y	5	16	23.81%	M	11	0	100.00%
OMSNP0156126	A	G	<i>CD99L2</i>	Y	N	17	0	100.00%	M	18	0	100.00%	Y	17	3	85.00%	M	26	0	100.00%
OMSNP0156138	C	T	<i>HMGB3</i>	Y	N	142	0	100.00%	M	74	0	100.00%	Y	53	29	64.63%	M	54	0	100.00%
OMSNP0156204	A	G	<i>RBMX</i>		N	541	0	100.00%	M	451	0	100.00%	Y	275	71	79.48%	M	378	0	100.00%
OMSNP0156207	G	C	<i>RBMX</i>	Y	Y	364	111	76.63%	M	370	0	100.00%	N	345	0	100.00%	M	284	0	100.00%
OMSNP0156415	A	T	<i>ATRX</i>		N	30	0	100.00%	M	24	0	100.00%	Y	2	33	5.71%	M	21	0	100.00%
OMSNP0156416	G	A	<i>ATRX</i>	Y	N	28	0	100.00%	M	23	0	100.00%	Y [#]	0	26	0.00%	M	0	30	0.00%
OMSNP0156832	C	T	<i>ALAS2</i>	Y	N	91	0	100.00%	M	51	0	100.00%	Y	13	186	6.53%	M	316	0	100.00%
OMSNP0156862	A	G	<i>TAF1</i>	Y	Y	4	13	23.53%	M	0	17	0.00%	N	0	10	0.00%	M	0	9	0.00%
OMSNP0156865	G	A	<i>NONO</i>	Y	Y	28	385	6.78%	M	1	440	0.23%	N	0	294	0.00%	M	1	381	0.26%
OMSNP0223627	T	C	<i>CENPI</i>	Y	Y	3	12	20.00%	M	0	19	100.00%	N	24	0	100.00%	M	25	1	3.85%

*: informative SNP

** : male control.

#: inferred from brain RNA-seq data.

Data S1B. SNP count summary for nonescaper genes from fetal brain and EEM RNA-seq data.

SNP_ID	ref allele	alter allele	gene name	LL1 has ref allele	SNP Class	A0571_b1 (LL2xLL1, brain)			A0571_b4 (LL2xLL1, brain)			A0579_b3 (LL1xLL2, brain)			A0579_b4 (LL1xLL2, brain)		
						ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %
OMSNP0149087	G	T	<i>ABCB7</i>	Y	class5	0	39	0.00%	0	50	0.00%	53	0	100.00%	43	0	100.00%
OMSNP0149088	A	G	<i>SLC16A2</i>	Y	class1	1	77	1.28%	0	61	0.00%	66	0	100.00%	28	0	100.00%
OMSNP0149089	T	C	<i>SLC16A2</i>	Y	class1	0	62	0.00%	0	40	0.00%	47	0	100.00%	27	0	100.00%
OMSNP0149090	G	A	<i>SLC16A2</i>	Y	class1	0	22	0.00%	0	13	0.00%	24	0	100.00%	7	0	100.00%
OMSNP0151045	C	G	<i>MTMR8</i>	Y	class5	0	40	0.00%	1	103	0.96%	47	0	100.00%	91	0	100.00%
OMSNP0221076	G	T	<i>PICALM-like</i>	Y	class3	0	17	0.00%	0	14	0.00%	22	0	100.00%	6	0	100.00%
OMSNP0152067	C	T	<i>PICALM-like</i>	Y	class0	0	18	0.00%	0	9	0.00%	26	0	100.00%	24	0	100.00%
OMSNP0251871	G	A	<i>VBP1</i>	Y	class0	0	8	0.00%	0	8	0.00%	11	0	100.00%	9	0	100.00%
OMSNP0251873	G	A	<i>VBP1</i>	Y	class5	0	4	0.00%	0	6	0.00%	17	0	100.00%	18	0	100.00%
OMSNP0251876	G	A	<i>RAB39B</i>	Y	class3	0	8	0.00%	0	21	0.00%	16	0	100.00%	25	0	100.00%
OMSNP0221082	T	C	<i>RAB39B</i>	Y	class0	0	8	0.00%	0	21	0.00%	17	0	100.00%	25	0	100.00%
OMSNP0251877	G	T	<i>RAB39B</i>	Y	class0	0	9	0.00%	0	13	0.00%	6	0	100.00%	18	0	100.00%
OMSNP0152558	G	A	<i>SLC9A6</i>	N	class2	41	0	100.00%	61	0	100.00%	0	54	0.00%	0	72	0.00%
OMSNP0152559	C	T	<i>SLC9A6</i>	Y	class5	0	23	0.00%	0	37	0.00%	40	0	100.00%	56	0	100.00%
OMSNP0152561	A	G	<i>SLC9A6</i>	Y	class5	0	34	0.00%	0	47	0.00%	33	0	100.00%	67	0	100.00%
OMSNP0152563	G	A	<i>SLC9A6</i>	N	class6	8	0	100.00%	16	0	100.00%	0	15	0.00%	0	19	0.00%
OMSNP0154449	C	T	<i>EMD</i>	Y	class0	0	236	0.00%	1	120	0.83%	282	0	100.00%	122	0	100.00%
OMSNP0154863	A	G	<i>TAZ</i>	Y	class5	6	112	5.08%	0	75	0.00%	142	0	100.00%	88	0	100.00%
OMSNP0154864	A	G	<i>TAZ</i>	Y	class1	2	41	4.65%	2	32	5.88%	64	0	100.00%	33	0	100.00%
OMSNP0154909	G	A	<i>FAM3A</i>	Y	class5	5	175	2.78%	1	101	0.98%	210	0	100.00%	165	0	100.00%
OMSNP0154922	G	T	<i>FAM3A</i>	Y	class3	1	9	10.00%	2	13	13.33%	25	0	100.00%	21	0	100.00%
OMSNP0154923	G	C	<i>FAM3A</i>	Y	class3	1	10	9.09%	1	14	6.67%	22	0	100.00%	19	0	100.00%
OMSNP0154958	T	G	<i>SEPHS2</i>	Y	class5	0	165	0.00%	0	176	0.00%	154	0	100.00%	118	0	100.00%
OMSNP0154982	C	A	<i>MPP1</i>	Y	class0	0	42	0.00%	0	20	0.00%	46	0	100.00%	25	0	100.00%
OMSNP0154992	T	C	<i>MPP1</i>	Y	class0	0	98	0.00%	0	50	0.00%	105	0	100.00%	73	0	100.00%
OMSNP0155001	C	G	<i>MPP1</i>	Y	class5	0	6	0.00%	0	4	0.00%	15	0	100.00%	8	0	100.00%
OMSNP0252688	C	T	<i>F8</i>	Y	class5	0	10	0.00%	0	3	0.00%	7	0	100.00%	1	0	100.00%
OMSNP0155011	C	A	<i>SMAD4-transposed</i>	Y	class1	0	51	0.00%	0	21	0.00%	43	0	100.00%	32	0	100.00%
OMSNP0155012	T	C	<i>SMAD4-transposed</i>	Y	class3	0	27	0.00%	0	9	0.00%	16	0	100.00%	13	0	100.00%
OMSNP0155013	G	A	<i>SMAD4-transposed</i>	Y	class3	0	22	0.00%	0	13	0.00%	29	0	100.00%	10	0	100.00%
OMSNP0155014	C	T	<i>SMAD4-transposed</i>	Y	class0	0	24	0.00%	0	14	0.00%	36	0	100.00%	14	0	100.00%
OMSNP0252689	G	A	<i>SMAD4-transposed</i>	Y	class0	0	15	0.00%	0	2	0.00%	17	0	100.00%	12	0	100.00%
OMSNP0222565	T	C	<i>TMLHE</i>	Y	class3	0	14	0.00%	0	3	0.00%	24	0	100.00%	13	0	100.00%
OMSNP0155015	G	A	<i>TMLHE</i>	Y	class3	0	19	0.00%	0	15	0.00%	21	0	100.00%	7	0	100.00%
OMSNP0155016	A	G	<i>TMLHE</i>	Y	class3	0	16	0.00%	0	13	0.00%	21	0	100.00%	11	0	100.00%

SNP_ID	ref allele	alter allele	gene name	LL1 has ref allele	SNP Class	A0571_b1 (LL2xLL1, brain)			A0571_b4 (LL2xLL1, brain)			A0579_b3 (LL1xLL2, brain)			A0579_b4 (LL1xLL2, brain)		
						ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %
OMSNP0252690	C	T	TMLHE	Y	class0	0	16	0.00%	0	2	0.00%	27	0	100.00%	4	0	100.00%
OMSNP0155017	C	T	TMLHE	Y	class0	0	20	0.00%	0	14	0.00%	26	0	100.00%	11	0	100.00%
OMSNP0222566	G	T	TMLHE	Y	class3	0	16	0.00%	0	6	0.00%	22	0	100.00%	10	0	100.00%
OMSNP0222567	T	G	TMLHE	Y	class3	0	17	0.00%	0	6	0.00%	21	0	100.00%	7	0	100.00%
OMSNP0222568	T	C	TMLHE	Y	class3	0	14	0.00%	0	11	0.00%	13	0	100.00%	8	0	100.00%
OMSNP0155018	T	G	TMLHE	Y	class3	0	20	0.00%	0	16	0.00%	23	0	100.00%	10	0	100.00%
OMSNP0155019	C	T	TMLHE	Y	class3	0	21	0.00%	0	15	0.00%	17	0	100.00%	11	0	100.00%
OMSNP0155020	A	T	TMLHE	Y	class3	0	18	0.00%	1	9	10.00%	12	0	100.00%	13	0	100.00%
OMSNP0155021	G	A	TMLHE	Y	class3	0	18	0.00%	0	14	0.00%	17	0	100.00%	14	0	100.00%
OMSNP0155022	C	T	TMLHE	Y	class3	0	18	0.00%	0	20	0.00%	19	0	100.00%	15	0	100.00%
OMSNP0155024	A	G	TMLHE	Y	class0	0	16	0.00%	0	10	0.00%	16	0	100.00%	14	0	100.00%
OMSNP0155025	G	A	TMLHE	Y	class0	0	16	0.00%	0	10	0.00%	26	0	100.00%	13	0	100.00%
OMSNP0252691	T	G	TMLHE	Y	class3	0	10	0.00%	0	7	0.00%	14	0	100.00%	16	0	100.00%
OMSNP0222569	C	T	TMLHE	Y	class3	0	14	0.00%	0	7	0.00%	10	0	100.00%	10	0	100.00%
OMSNP0252692	G	A	TMLHE	Y	class0	0	14	0.00%	0	6	0.00%	9	0	100.00%	8	0	100.00%
OMSNP0252693	T	C	TMLHE	Y	class3	0	11	0.00%	0	6	0.00%	7	0	100.00%	7	0	100.00%
OMSNP0222572	G	A	SPRY3	Y	class3	0	9	0.00%	0	4	0.00%	12	0	100.00%	8	0	100.00%
OMSNP0155029	A	G	VAMP7	Y	class5	0	67	0.00%	0	64	0.00%	76	0	100.00%	75	0	100.00%
OMSNP0155030	C	T	VAMP7	Y	class5	0	22	0.00%	0	15	0.00%	45	0	100.00%	17	0	100.00%
OMSNP0155031	A	G	VAMP7	Y	class5	0	37	0.00%	0	22	0.00%	69	0	100.00%	46	0	100.00%
OMSNP0155032	A	C	VAMP7	Y	class5	1	59	1.67%	0	41	0.00%	47	0	100.00%	45	0	100.00%
OMSNP0155036	G	A	F8A1	Y	class5	3	120	2.44%	3	291	1.02%	175	0	100.00%	299	0	100.00%
OMSNP0155037	T	C	F8A1	Y	class5	2	289	0.69%	2	529	0.38%	372	0	100.00%	632	0	100.00%
OMSNP0155046	A	C	ZNF673	Y	class0	0	30	0.00%	0	16	0.00%	35	0	100.00%	40	0	100.00%
OMSNP0155047	T	C	ZNF673	Y	class0	0	27	0.00%	0	43	0.00%	34	0	100.00%	37	0	100.00%
OMSNP0155048	T	C	ACSL4	Y	class5	0	81	0.00%	0	84	0.00%	53	0	100.00%	65	0	100.00%
OMSNP0155049	G	A	ACSL4	Y	class0	0	47	0.00%	0	37	0.00%	50	0	100.00%	50	0	100.00%
OMSNP0155050	A	G	ACSL4	Y	class5	1	59	1.67%	2	81	2.41%	56	0	100.00%	109	0	100.00%
OMSNP0155055	G	A	TMEM164	Y	class0	0	43	0.00%	0	36	0.00%	74	0	100.00%	62	0	100.00%
OMSNP0155056	A	T	TMEM164	Y	class0	0	57	0.00%	0	59	0.00%	47	0	100.00%	85	0	100.00%
OMSNP0155057	G	A	TMEM164	Y	class0	0	60	0.00%	1	55	1.79%	72	0	100.00%	84	0	100.00%
OMSNP0155058	C	T	TMEM164	Y	class0	0	77	0.00%	0	63	0.00%	71	0	100.00%	85	0	100.00%
OMSNP0155059	T	C	TMEM164	Y	class0	1	83	1.19%	0	65	0.00%	75	0	100.00%	92	0	100.00%
OMSNP0155060	A	G	TMEM164	Y	class0	0	53	0.00%	0	50	0.00%	62	0	100.00%	75	0	100.00%
OMSNP0155061	C	T	AMMECR1	Y	class3	0	46	0.00%	0	4	0.00%	54	0	100.00%	6	0	100.00%
OMSNP0155062	A	C	AMMECR1	Y	class3	0	57	0.00%	0	6	0.00%	51	0	100.00%	7	0	100.00%
OMSNP0155064	A	C	NXT1	Y	class3	0	72	0.00%	0	39	0.00%	83	0	100.00%	61	0	100.00%

SNP_ID	ref allele	alter allele	gene name	LL1 has ref allele	SNP Class	A0571_b1 (LL2xLL1, brain)			A0571_b4 (LL2xLL1, brain)			A0579_b3 (LL1xLL2, brain)			A0579_b4 (LL1xLL2, brain)		
						ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %
OMSNP0155065	A	C	IRS4	Y	class0	0	21	0.00%	0	56	0.00%	15	0	100.00%	34	0	100.00%
OMSNP0155066	G	T	IRS4	Y	class3	0	19	0.00%	0	38	0.00%	22	0	100.00%	23	0	100.00%
OMSNP0155067	A	G	IRS4	Y	class3	0	25	0.00%	0	46	0.00%	18	0	100.00%	30	0	100.00%
OMSNP0252701	C	T	IRS4	Y	class0	0	9	0.00%	0	22	0.00%	5	0	100.00%	6	0	100.00%
OMSNP0155068	T	C	IRS4	Y	class5	0	41	0.00%	0	40	0.00%	18	0	100.00%	22	0	100.00%
OMSNP0155069	T	C	IRS4	Y	class5	0	29	0.00%	0	48	0.00%	13	0	100.00%	34	0	100.00%
OMSNP0155070	G	T	IRS4	Y	class5	0	39	0.00%	1	68	1.45%	26	0	100.00%	36	0	100.00%
OMSNP0222593	G	A	COL4A5	Y	class3	0	11	0.00%	0	9	0.00%	12	0	100.00%	10	0	100.00%
OMSNP0155072	C	T	COL4A5	Y	class0	0	14	0.00%	0	14	0.00%	11	0	100.00%	12	0	100.00%
OMSNP0155073	A	G	COL4A5	Y	class1	0	27	0.00%	0	32	0.00%	41	0	100.00%	37	0	100.00%
OMSNP0155075	A	G	COL4A5	Y	class0	0	18	0.00%	0	22	0.00%	35	0	100.00%	18	0	100.00%
OMSNP0155076	C	T	COL4A5	Y	class0	0	15	0.00%	0	24	0.00%	29	0	100.00%	22	0	100.00%
OMSNP0155092	G	A	MID2	Y	class5	1	105	0.94%	0	79	0.00%	117	0	100.00%	113	0	100.00%
OMSNP0155095	G	A	STARD8	Y	class5	0	27	0.00%	0	22	0.00%	47	0	100.00%	9	0	100.00%
OMSNP0155096	G	A	STARD8	Y	class0	0	45	0.00%	0	27	0.00%	42	0	100.00%	27	0	100.00%
OMSNP0155097	A	G	STARD8	Y	class0	0	40	0.00%	0	16	0.00%	42	0	100.00%	20	0	100.00%
OMSNP0155098	C	A	STARD8	Y	class0	0	41	0.00%	0	18	0.00%	42	0	100.00%	18	0	100.00%
OMSNP0155099	A	C	STARD8	Y	class0	0	44	0.00%	0	17	0.00%	35	0	100.00%	20	0	100.00%
OMSNP0252705	G	A	OPHN1	Y	class5	0	12	0.00%	0	20	0.00%	10	0	100.00%	14	0	100.00%
OMSNP0155113	G	C	OPHN1	Y	class5	0	23	0.00%	0	34	0.00%	13	0	100.00%	41	0	100.00%
OMSNP0155114	G	A	OPHN1	Y	class0	0	18	0.00%	0	23	0.00%	12	0	100.00%	34	0	100.00%
OMSNP0155115	C	T	OPHN1	Y	class0	0	15	0.00%	1	37	2.63%	18	0	100.00%	41	0	100.00%
OMSNP0155116	C	A	OPHN1	Y	class5	0	19	0.00%	1	30	3.23%	15	0	100.00%	22	0	100.00%
OMSNP0155117	G	A	OPHN1	Y	class5	0	20	0.00%	0	24	0.00%	10	0	100.00%	17	0	100.00%
OMSNP0155118	A	G	OPHN1	Y	class5	0	19	0.00%	0	28	0.00%	14	0	100.00%	20	0	100.00%
OMSNP0155119	T	C	OPHN1	Y	class0	0	8	0.00%	0	27	0.00%	23	0	100.00%	28	0	100.00%
OMSNP0155120	G	A	OPHN1	Y	class0	0	14	0.00%	0	36	0.00%	25	0	100.00%	37	0	100.00%
OMSNP0155121	T	G	OPHN1	Y	class0	0	32	0.00%	0	42	0.00%	30	0	100.00%	34	0	100.00%
OMSNP0155122	T	G	OPHN1	Y	class0	0	21	0.00%	0	27	0.00%	11	0	100.00%	22	0	100.00%
OMSNP0155123	G	C	OPHN1	Y	class0	0	36	0.00%	0	29	0.00%	37	0	100.00%	56	0	100.00%
OMSNP0155124	C	T	OPHN1	Y	class0	0	16	0.00%	0	24	0.00%	19	0	100.00%	29	0	100.00%
OMSNP0155125	G	A	OPHN1	Y	class0	0	18	0.00%	0	28	0.00%	23	0	100.00%	26	0	100.00%
OMSNP0155127	G	A	OPHN1	Y	class0	0	18	0.00%	0	29	0.00%	29	0	100.00%	43	0	100.00%
OMSNP0155128	T	C	OPHN1	Y	class0	0	17	0.00%	0	34	0.00%	40	0	100.00%	51	0	100.00%
OMSNP0155129	G	A	OPHN1	Y	class0	0	19	0.00%	0	44	0.00%	34	0	100.00%	57	0	100.00%
OMSNP0155130	G	A	OPHN1	Y	class0	0	32	0.00%	0	54	0.00%	48	0	100.00%	58	0	100.00%
OMSNP0155131	T	C	OPHN1	Y	class0	0	28	0.00%	0	45	0.00%	47	0	100.00%	58	0	100.00%

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						ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %
OMSNP0155132	T	C	<i>OPHN1</i>	Y	class0	0	37	0.00%	0	38	0.00%	35	0	100.00%	33	0	100.00%
OMSNP0155133	T	C	<i>OPHN1</i>	Y	class0	0	32	0.00%	0	37	0.00%	35	0	100.00%	33	0	100.00%
OMSNP0155142	C	T	<i>EDA2R</i>	Y	class0	0	15	0.00%	0	8	0.00%	19	0	100.00%	12	0	100.00%
OMSNP0155143	T	C	<i>EDA2R</i>	Y	class3	0	26	0.00%	0	11	0.00%	20	0	100.00%	18	0	100.00%
OMSNP0155144	A	T	<i>EDA2R</i>	Y	class3	0	24	0.00%	0	10	0.00%	15	0	100.00%	7	0	100.00%
OMSNP0252710	T	A	<i>HEPH</i>	Y	class0	0	3	0.00%	0	5	0.00%	5	0	100.00%	3	0	100.00%
OMSNP0252717	C	T	<i>HEPH</i>	Y	class0	0	6	0.00%	1	3	25.00%	7	0	100.00%	3	0	100.00%
OMSNP0155147	T	C	<i>HEPH</i>	Y	class5	0	0	-	0	9	0.00%	6	0	100.00%	11	0	100.00%
OMSNP0155148	G	A	<i>HEPH</i>	Y	class1	0	5	0.00%	0	6	0.00%	7	0	100.00%	7	0	100.00%
OMSNP0155149	C	G	<i>HEPH</i>	Y	class1	0	5	0.00%	0	3	0.00%	4	0	100.00%	9	0	100.00%
OMSNP0155159	T	C	<i>HSF3</i>	Y	class0	1	357	0.28%	0	162	0.00%	355	0	100.00%	191	0	100.00%
OMSNP0155164	A	G	<i>HSF3</i>	Y	class1	1	240	0.41%	0	126	0.00%	255	0	100.00%	121	0	100.00%
OMSNP0155166	C	T	<i>HSF3</i>	Y	class0	1	289	0.34%	0	124	0.00%	256	0	100.00%	116	0	100.00%
OMSNP0155167	C	A	<i>HSF3</i>	Y	class0	0	324	0.00%	0	160	0.00%	318	0	100.00%	124	0	100.00%
OMSNP0155168	G	A	<i>MSN</i>	Y	class5	8	241	3.21%	1	155	0.64%	266	0	100.00%	138	0	100.00%
OMSNP0155169	G	C	<i>MSN</i>	Y	class0	1	203	0.49%	0	105	0.00%	203	0	100.00%	104	0	100.00%
OMSNP0155170	C	A	<i>MSN</i>	Y	class0	0	154	0.00%	1	125	0.79%	225	0	100.00%	117	0	100.00%
OMSNP0155171	A	G	<i>MSN</i>	Y	class1	8	217	3.56%	12	162	6.90%	339	0	100.00%	150	0	100.00%
OMSNP0252724	G	C	<i>ECM2</i>	Y	class0	1	12	7.69%	0	1	0.00%	19	0	100.00%	4	0	100.00%
OMSNP0155216	G	T	<i>ATP2B3</i>	Y	class5	0	21	0.00%	0	51	0.00%	23	0	100.00%	28	0	100.00%
OMSNP0155217	C	T	<i>ATP2B3</i>	Y	class5	0	31	0.00%	0	37	0.00%	27	0	100.00%	22	0	100.00%
OMSNP0155219	T	C	<i>PNCK</i>	Y	class1	0	145	0.00%	0	315	0.00%	122	0	100.00%	272	0	100.00%
OMSNP0155237	C	T	<i>PNCK</i>	Y	class0	1	54	1.82%	1	125	0.79%	54	0	100.00%	77	0	100.00%
OMSNP0155238	G	A	<i>PNCK</i>	Y	class5	0	39	0.00%	0	78	0.00%	29	0	100.00%	60	0	100.00%
OMSNP0155248	G	T	<i>BCAP31</i>	Y	class0	19	336	5.35%	13	172	7.03%	383	0	100.00%	217	0	100.00%
OMSNP0155251	T	C	<i>ABCD1</i>	Y	class1	0	18	0.00%	0	2	0.00%	10	0	100.00%	3	0	100.00%
OMSNP0155252	T	C	<i>ABCD1</i>	Y	class0	0	15	0.00%	0	4	0.00%	11	0	100.00%	8	0	100.00%
OMSNP0155253	T	G	<i>ABCD1</i>	Y	class0	0	19	0.00%	0	10	0.00%	18	0	100.00%	7	0	100.00%
OMSNP0222648	T	C	<i>ABCD1</i>	Y	class0	0	12	0.00%	0	4	0.00%	10	0	100.00%	3	0	100.00%
OMSNP0252731	C	A	<i>PLXNB3</i>	Y	class5	0	11	0.00%	0	10	0.00%	10	0	100.00%	2	0	100.00%
OMSNP0252732	G	A	<i>PLXNB3</i>	Y	class0	0	17	0.00%	0	7	0.00%	14	0	100.00%	5	0	100.00%
OMSNP0252733	A	G	<i>PLXNB3</i>	Y	class0	0	12	0.00%	0	5	0.00%	10	0	100.00%	5	0	100.00%
OMSNP0155254	T	C	<i>SRPK3</i>	Y	class0	0	58	0.00%	0	15	0.00%	75	0	100.00%	14	0	100.00%
OMSNP0155291	C	T	<i>L1CAM</i>	Y	class5	0	20	0.00%	0	75	0.00%	26	0	100.00%	29	0	100.00%
OMSNP0155293	T	C	<i>L1CAM</i>	Y	class0	0	30	0.00%	0	150	0.00%	33	0	100.00%	119	0	100.00%
OMSNP0155294	G	A	<i>L1CAM</i>	Y	class5	0	30	0.00%	0	163	0.00%	40	0	100.00%	97	0	100.00%
OMSNP0155327	C	T	<i>RBM41</i>	Y	class5	1	56	1.75%	0	72	0.00%	55	0	100.00%	89	0	100.00%

SNP_ID	ref allele	alter allele	gene name	LL1 has ref allele	SNP Class	A0571_b1 (LL2xLL1, brain)			A0571_b4 (LL2xLL1, brain)			A0579_b3 (LL1xLL2, brain)			A0579_b4 (LL1xLL2, brain)		
						ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %
OMSNP0155329	C	G	<i>RBM41</i>	Y	class5	0	48	0.00%	1	59	1.67%	51	0	100.00%	59	0	100.00%
OMSNP0222689	G	T	<i>TBC1D8B</i>	Y	class0	0	11	0.00%	0	14	0.00%	9	0	100.00%	3	0	100.00%
OMSNP0222690	T	C	<i>TBC1D8B</i>	Y	class0	0	11	0.00%	0	14	0.00%	9	0	100.00%	3	0	100.00%
OMSNP0155336	C	T	<i>TBC1D8B</i>	Y	class5	0	19	0.00%	0	7	0.00%	24	0	100.00%	12	0	100.00%
OMSNP0155337	C	T	<i>TBC1D8B</i>	Y	class5	0	23	0.00%	0	8	0.00%	32	0	100.00%	17	0	100.00%
OMSNP0155338	G	A	<i>TBC1D8B</i>	Y	class5	0	29	0.00%	0	22	0.00%	44	0	100.00%	20	0	100.00%
OMSNP0155339	C	A	<i>TBC1D8B</i>	Y	class0	0	24	0.00%	0	11	0.00%	27	0	100.00%	13	0	100.00%
OMSNP0155340	T	C	<i>TBC1D8B</i>	Y	class0	0	48	0.00%	0	15	0.00%	36	0	100.00%	15	0	100.00%
OMSNP0155341	A	C	<i>TBC1D8B</i>	Y	class0	0	42	0.00%	0	13	0.00%	39	0	100.00%	19	0	100.00%
OMSNP0155342	C	T	<i>TBC1D8B</i>	Y	class5	0	22	0.00%	0	12	0.00%	34	0	100.00%	20	0	100.00%
OMSNP0155343	T	C	<i>TBC1D8B</i>	Y	class0	0	31	0.00%	0	16	0.00%	29	0	100.00%	26	0	100.00%
OMSNP0155344	T	C	<i>TBC1D8B</i>	Y	class0	0	18	0.00%	0	11	0.00%	16	0	100.00%	19	0	100.00%
OMSNP0155345	C	T	<i>TBC1D8B</i>	Y	class5	0	14	0.00%	1	10	9.09%	16	0	100.00%	7	0	100.00%
OMSNP0252747	G	T	<i>RNF128</i>	Y	class5	0	5	0.00%	0	3	0.00%	7	0	100.00%	2	0	100.00%
OMSNP0155346	A	G	<i>NXT2</i>	Y	class5	1	137	0.72%	0	162	0.00%	170	0	100.00%	185	0	100.00%
OMSNP0155349	A	G	<i>NXT2</i>	Y	class5	1	177	0.56%	0	245	0.00%	220	0	100.00%	247	0	100.00%
OMSNP0155350	C	T	<i>NXT2</i>	Y	class5	0	124	0.00%	2	150	1.32%	128	0	100.00%	160	0	100.00%
OMSNP0155353	G	C	<i>NXT2</i>	Y	class5	3	75	3.85%	0	116	0.00%	231	0	100.00%	214	0	100.00%
OMSNP0155354	T	G	<i>NXT2</i>	Y	class5	2	70	2.78%	0	87	0.00%	145	0	100.00%	163	0	100.00%
OMSNP0155355	A	G	<i>NXT2</i>	Y	class0	1	117	0.85%	0	135	0.00%	107	0	100.00%	84	0	100.00%
OMSNP0155356	A	C	<i>NXT2</i>	Y	class0	0	8	0.00%	0	11	0.00%	9	0	100.00%	7	0	100.00%
OMSNP0155357	C	T	<i>LOC100028767</i>	Y	class0	2	162	1.22%	0	20	0.00%	182	0	100.00%	61	0	100.00%
OMSNP0155358	C	T	<i>LOC100028767</i>	Y	class5	1	183	0.54%	0	34	0.00%	242	0	100.00%	70	0	100.00%
OMSNP0155359	G	A	<i>LOC100028767</i>	Y	class5	0	165	0.00%	0	28	0.00%	167	0	100.00%	61	0	100.00%
OMSNP0155360	G	A	<i>LOC100028767</i>	Y	class0	0	143	0.00%	0	31	0.00%	183	0	100.00%	36	0	100.00%
OMSNP0155361	T	G	<i>LAS1L</i>	Y	class0	1	304	0.33%	4	913	0.44%	466	0	100.00%	1240	0	100.00%
OMSNP0222713	C	T	<i>LAS1L</i>	Y	class0	5	320	1.54%	4	687	0.58%	688	0	100.00%	1625	0	100.00%
OMSNP0155398	C	G	<i>LAS1L</i>	Y	class0	1	405	0.25%	2	1096	0.18%	461	0	100.00%	978	0	100.00%
OMSNP0155399	C	T	<i>LAS1L</i>	Y	class0	0	18	0.00%	0	64	0.00%	13	0	100.00%	36	0	100.00%
OMSNP0155401	A	G	<i>ZC4H2</i>	Y	class0	0	68	0.00%	0	123	0.00%	90	0	100.00%	177	0	100.00%
OMSNP0155453	A	G	<i>TKTL1</i>	Y	class5	3	860	0.35%	4	2507	0.16%	804	0	100.00%	2634	0	100.00%
OMSNP0222752	C	T	<i>LOC100029725</i>	Y	class0	0	6	0.00%	0	1	0.00%	5	0	100.00%	0	0	-
OMSNP0155468	T	A	<i>LOC100029725</i>	Y	class0	0	26	0.00%	0	18	0.00%	30	0	100.00%	40	0	100.00%
OMSNP0155512	A	G	<i>GRIA3</i>	Y	class1	1	241	0.41%	0	25	0.00%	282	0	100.00%	38	0	100.00%
OMSNP0155518	T	C	<i>GRIA3</i>	N	class6	255	0	100.00%	56	0	100.00%	0	318	0.00%	0	41	0.00%
OMSNP0252767	G	A	<i>GRIA3</i>	Y	class1	0	23	0.00%	0	1	0.00%	45	0	100.00%	1	0	100.00%
OMSNP0155591	G	A	<i>STAG2</i>	N	class2	356	0	100.00%	211	0	100.00%	2	414	0.48%	1	252	0.40%

SNP_ID	ref allele	alter allele	gene name	LL1 has ref allele	SNP Class	A0571_b1 (LL2xLL1, brain)			A0571_b4 (LL2xLL1, brain)			A0579_b3 (LL1xLL2, brain)			A0579_b4 (LL1xLL2, brain)		
						ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %
OMSNP0252772	A	G	<i>ODZ1</i>	N	class0	2	0	100.00%	5	0	100.00%	0	4	0.00%	0	1	0.00%
OMSNP0252773	T	C	<i>ODZ1</i>	N	class4	4	0	100.00%	7	0	100.00%	0	1	0.00%	0	5	0.00%
OMSNP0155618	T	A	<i>CNOT7L</i>	Y	class0	0	24	0.00%	1	46	2.13%	33	0	100.00%	29	0	100.00%
OMSNP0222793	T	C	<i>ashwin-like</i>	Y	class0	0	11	0.00%	0	15	0.00%	5	0	100.00%	9	0	100.00%
OMSNP0222794	T	C	<i>ashwin-like</i>	Y	class3	0	5	0.00%	0	1	0.00%	7	0	100.00%	5	0	100.00%
OMSNP0222795	C	T	<i>ashwin-like</i>	Y	class3	0	9	0.00%	0	14	0.00%	14	0	100.00%	14	0	100.00%
OMSNP0222798	T	G	<i>ashwin-like</i>	Y	class3	0	11	0.00%	0	13	0.00%	9	0	100.00%	8	0	100.00%
OMSNP0155663	A	G	<i>ashwin-like</i>	Y	class3	2	19	9.52%	0	18	0.00%	11	0	100.00%	13	0	100.00%
OMSNP0155664	T	C	<i>ashwin-like</i>	Y	class3	0	15	0.00%	0	11	0.00%	10	0	100.00%	11	0	100.00%
OMSNP0155666	C	T	<i>LUC7L2-transposed</i>	Y	class5	0	38	0.00%	0	46	0.00%	42	0	100.00%	38	0	100.00%
OMSNP0222799	A	G	<i>LUC7L2-transposed</i>	Y	class5	0	8	0.00%	0	7	0.00%	11	0	100.00%	5	0	100.00%
OMSNP0222800	A	C	<i>LUC7L2-transposed</i>	Y	class5	0	5	0.00%	0	14	0.00%	6	0	100.00%	15	0	100.00%
OMSNP0222801	C	T	<i>LUC7L2-transposed</i>	Y	class5	0	6	0.00%	0	10	0.00%	6	0	100.00%	9	0	100.00%
OMSNP0155693	C	T	<i>ANKRD54-like</i>	Y	class5	0	43	0.00%	0	108	0.00%	73	0	100.00%	106	0	100.00%
OMSNP0155694	C	A	<i>ANKRD54-like</i>	Y	class0	0	32	0.00%	0	58	0.00%	13	0	100.00%	30	0	100.00%
OMSNP0155695	G	A	<i>ANKRD54-like</i>	Y	class5	0	61	0.00%	0	156	0.00%	60	0	100.00%	130	0	100.00%
OMSNP0222809	T	G	<i>SMC6</i>	Y	class0	0	8	0.00%	0	21	0.00%	16	0	100.00%	12	0	100.00%
OMSNP0222810	T	C	<i>SMC6</i>	Y	class3	0	8	0.00%	0	21	0.00%	9	0	100.00%	19	0	100.00%
OMSNP0252789	C	T	<i>SMC6</i>	Y	class3	0	5	0.00%	0	17	0.00%	8	0	100.00%	24	0	100.00%
OMSNP0252790	C	A	<i>PABPC1L2B</i>	Y	class5	0	5	0.00%	0	16	0.00%	13	0	100.00%	13	0	100.00%
OMSNP0252791	T	C	<i>PABPC1L2B</i>	Y	class5	0	5	0.00%	0	12	0.00%	12	0	100.00%	9	0	100.00%
OMSNP0252792	C	T	<i>PABPC1L2B</i>	Y	class5	0	5	0.00%	0	12	0.00%	12	0	100.00%	9	0	100.00%
OMSNP0155701	A	C	<i>novelX_03_L2_Mars</i>	Y	class0	0	8	0.00%	0	12	0.00%	19	0	100.00%	17	0	100.00%
OMSNP0155702	T	C	<i>novelX_03_L2_Mars</i>	Y	class0	0	32	0.00%	0	32	0.00%	34	0	100.00%	39	0	100.00%
OMSNP0155703	C	T	<i>novelX_03_L2_Mars</i>	Y	class5	0	8	0.00%	0	13	0.00%	31	0	100.00%	37	0	100.00%
OMSNP0155705	C	G	<i>novelX_03_L2_Mars</i>	Y	class5	0	9	0.00%	0	23	0.00%	46	0	100.00%	43	0	100.00%
OMSNP0155709	T	G	<i>novelX_03_L2_Mars</i>	Y	class5	0	22	0.00%	0	43	0.00%	39	0	100.00%	39	0	100.00%
OMSNP0155710	A	G	<i>novelX_03_L2_Mars</i>	Y	class5	0	35	0.00%	0	44	0.00%	45	0	100.00%	47	0	100.00%
OMSNP0155711	A	G	<i>novelX_03_L2_Mars</i>	Y	class5	0	37	0.00%	0	40	0.00%	49	0	100.00%	54	0	100.00%
OMSNP0155712	G	A	<i>novelX_03_L2_Mars</i>	Y	class5	0	15	0.00%	0	29	0.00%	30	0	100.00%	30	0	100.00%
OMSNP0155713	G	A	<i>novelX_03_L2_Mars</i>	Y	class0	0	9	0.00%	0	3	0.00%	33	0	100.00%	22	0	100.00%
OMSNP0252796	C	T	<i>novelX_03_L2_Mars</i>	Y	class5	0	5	0.00%	0	27	0.00%	5	0	100.00%	24	0	100.00%
OMSNP0155717	A	G	<i>novelX_04_L2_Mars</i>	Y	class5	0	60	0.00%	0	52	0.00%	35	0	100.00%	22	0	100.00%
OMSNP0155718	A	G	<i>novelX_04_L2_Mars</i>	Y	class0	0	33	0.00%	0	14	0.00%	45	0	100.00%	38	0	100.00%
OMSNP0155719	G	A	<i>novelX_04_L2_Mars</i>	Y	class0	0	33	0.00%	1	13	7.14%	49	0	100.00%	41	0	100.00%
OMSNP0155720	A	T	<i>novelX_04_L2_Mars</i>	Y	class5	0	48	0.00%	0	27	0.00%	38	0	100.00%	22	0	100.00%
OMSNP0155721	T	C	<i>novelX_04_L2_Mars</i>	Y	class0	0	108	0.00%	0	99	0.00%	120	0	100.00%	95	0	100.00%

SNP_ID	ref allele	alter allele	gene name	LL1 has ref allele	SNP Class	A0571_b1 (LL2xLL1, brain)			A0571_b4 (LL2xLL1, brain)			A0579_b3 (LL1xLL2, brain)			A0579_b4 (LL1xLL2, brain)		
						ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %
OMSNP0155722	C	T	<i>novelX_04_L2_Mars</i>	Y	class0	0	116	0.00%	0	74	0.00%	108	0	100.00%	93	0	100.00%
OMSNP0155723	G	A	<i>novelX_04_L2_Mars</i>	Y	class5	0	141	0.00%	3	128	2.29%	216	0	100.00%	118	0	100.00%
OMSNP0155724	T	G	<i>novelX_04_L2_Mars</i>	Y	class5	0	132	0.00%	0	144	0.00%	214	0	100.00%	109	0	100.00%
OMSNP0155725	G	A	<i>novelX_04_L2_Mars</i>	Y	class1	1	100	0.99%	0	117	0.00%	176	0	100.00%	112	0	100.00%
OMSNP0155777	A	C	<i>novelX_05_L1_Opos2</i>	Y	class0	0	20	0.00%	0	37	0.00%	12	0	100.00%	20	0	100.00%
OMSNP0222828	T	C	<i>novelX_05_L1_Opos2</i>	Y	class0	0	8	0.00%	0	37	0.00%	10	0	100.00%	8	0	100.00%
OMSNP0222829	C	T	<i>novelX_05_L1_Opos2</i>	Y	class0	0	2	0.00%	0	21	0.00%	4	0	100.00%	6	0	100.00%
OMSNP0222830	C	T	<i>ASB12</i>	Y	class3	0	15	0.00%	0	10	0.00%	12	0	100.00%	11	0	100.00%
OMSNP0155778	C	T	<i>FAM123B</i>	Y	class0	0	14	0.00%	0	24	0.00%	14	0	100.00%	8	0	100.00%
OMSNP0155779	G	A	<i>FAM123B</i>	Y	class1	1	14	6.67%	0	17	0.00%	13	0	100.00%	12	0	100.00%
OMSNP0155780	T	C	<i>FAM123B</i>	Y	class0	0	30	0.00%	0	38	0.00%	24	0	100.00%	20	0	100.00%
OMSNP0155781	G	A	<i>FAM123B</i>	Y	class0	0	31	0.00%	1	40	2.44%	33	0	100.00%	25	0	100.00%
OMSNP0155782	T	C	<i>FAM123B</i>	Y	class5	0	10	0.00%	0	13	0.00%	17	0	100.00%	9	0	100.00%
OMSNP0155783	T	G	<i>FAM123B</i>	Y	class1	0	12	0.00%	0	23	0.00%	15	0	100.00%	16	0	100.00%
OMSNP0155784	C	T	<i>FAM123B</i>	Y	class5	0	34	0.00%	0	42	0.00%	26	0	100.00%	25	0	100.00%
OMSNP0155785	G	A	<i>FAM123B</i>	Y	class1	1	46	2.13%	0	47	0.00%	43	0	100.00%	25	0	100.00%
OMSNP0155786	G	A	<i>FAM123B</i>	Y	class1	1	25	3.85%	0	23	0.00%	18	0	100.00%	12	0	100.00%
OMSNP0222836	T	A	<i>CHIC1</i>	Y	class1	0	17	0.00%	0	13	0.00%	27	0	100.00%	11	0	100.00%
OMSNP0222837	C	T	<i>CHIC1</i>	Y	class1	0	14	0.00%	0	10	0.00%	17	0	100.00%	16	0	100.00%
OMSNP0222839	T	C	<i>CHIC1</i>	Y	class5	0	11	0.00%	0	9	0.00%	13	0	100.00%	11	0	100.00%
OMSNP0252801	G	A	<i>CHIC1</i>	Y	class0	0	9	0.00%	0	5	0.00%	17	0	100.00%	6	0	100.00%
OMSNP0222844	G	A	<i>CHIC1</i>	Y	class5	0	15	0.00%	0	5	0.00%	9	0	100.00%	5	0	100.00%
OMSNP0222845	G	A	<i>KDR1</i>	Y	class1	0	9	0.00%	0	11	0.00%	16	0	100.00%	1	0	100.00%
OMSNP0252811	G	A	<i>FAM199X</i>	Y	class0	0	5	0.00%	0	11	0.00%	4	0	100.00%	13	0	100.00%
OMSNP0155798	G	A	<i>LONRF3</i>	N	class6	10	0	100.00%	29	0	100.00%	0	7	0.00%	0	31	0.00%
OMSNP0155799	A	T	<i>LONRF3</i>	N	class6	18	0	100.00%	51	0	100.00%	0	10	0.00%	0	16	0.00%
OMSNP0155805	G	A	<i>PGRMC1</i>	N	class6	860	0	100.00%	1398	0	100.00%	8	863	0.92%	11	1657	0.66%
OMSNP0155806	G	A	<i>AKAP17B</i>	Y	class5	0	21	0.00%	0	35	0.00%	22	0	100.00%	45	0	100.00%
OMSNP0155807	G	A	<i>AKAP17B</i>	N	class6	22	0	100.00%	69	0	100.00%	0	44	0.00%	0	90	0.00%
OMSNP0155838	G	A	<i>SEPT6</i>	Y	class5	2	131	1.50%	1	161	0.62%	190	0	100.00%	186	0	100.00%
OMSNP0252829	G	T	<i>UPF3B</i>	Y	class5	0	8	0.00%	0	9	0.00%	10	0	100.00%	23	0	100.00%
OMSNP0252832	A	G	<i>UPF3B</i>	Y	class5	0	15	0.00%	0	18	0.00%	6	0	100.00%	16	0	100.00%
OMSNP0252833	C	T	<i>UPF3B</i>	Y	class5	0	6	0.00%	0	8	0.00%	9	0	100.00%	12	0	100.00%
OMSNP0252835	A	G	<i>UPF3B</i>	Y	class5	0	11	0.00%	0	12	0.00%	4	0	100.00%	9	0	100.00%
OMSNP0155878	C	T	<i>UPF3B</i>	N	class6	22	0	100.00%	33	0	100.00%	0	39	0.00%	0	21	0.00%
OMSNP0155883	G	A	<i>NDUFA1</i>	N	class6	91	0	100.00%	86	0	100.00%	3	130	2.26%	2	114	1.72%
OMSNP0155884	A	T	<i>NDUFA1</i>	N	class6	53	0	100.00%	56	0	100.00%	2	59	3.28%	0	52	0.00%

SNP_ID	ref allele	alter allele	gene name	LL1 has ref allele	SNP Class	A0571_b1 (LL2xLL1, brain)			A0571_b4 (LL2xLL1, brain)			A0579_b3 (LL1xLL2, brain)			A0579_b4 (LL1xLL2, brain)		
						ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %
OMSNP0155885	A	G	ZBTB33	N	class6	54	0	100.00%	56	0	100.00%	0	45	0.00%	0	71	0.00%
OMSNP0222916	T	G	ZBTB33	N	class2	1	0	100.00%	5	0	100.00%	0	2	0.00%	0	4	0.00%
OMSNP0252839	G	A	ATP1B4	N	class6	17	0	100.00%	1	0	100.00%	0	33	0.00%	0	2	0.00%
OMSNP0252840	C	T	ATP1B4	Y	class5	0	19	0.00%	0	3	0.00%	42	0	100.00%	4	0	100.00%
OMSNP0252841	C	T	ATP1B4	Y	class5	0	11	0.00%	0	3	0.00%	27	0	100.00%	1	0	100.00%
OMSNP0155887	C	T	CUL4B	N	class6	149	0	100.00%	104	0	100.00%	0	153	0.00%	1	194	0.51%
OMSNP0155888	T	C	CUL4B	N	class6	59	0	100.00%	65	0	100.00%	0	76	0.00%	0	115	0.00%
OMSNP0155906	G	A	SMARCA1	N	class2	101	0	100.00%	111	0	100.00%	0	93	0.00%	1	100	0.99%
OMSNP0155908	G	A	SMARCA1	Y	class5	1	84	1.18%	0	75	0.00%	83	0	100.00%	94	0	100.00%
OMSNP0155910	G	A	OCRL	Y	class1	0	7	0.00%	0	26	0.00%	15	0	100.00%	33	0	100.00%
OMSNP0155911	G	A	OCRL	N	class2	33	0	100.00%	43	0	100.00%	1	26	3.70%	1	72	1.37%
OMSNP0155913	C	T	APLN	N	class2	53	0	100.00%	19	0	100.00%	0	58	0.00%	0	30	0.00%
OMSNP0155915	G	A	APLN	N	class2	45	0	100.00%	24	0	100.00%	1	81	1.22%	0	31	0.00%
OMSNP0155916	T	C	APLN	N	class2	36	0	100.00%	10	0	100.00%	0	60	0.00%	0	30	0.00%
OMSNP0155918	T	G	APLN	N	class2	37	0	100.00%	25	0	100.00%	0	65	0.00%	0	29	0.00%
OMSNP0155919	G	A	APLN	Y	class1	0	26	0.00%	0	17	0.00%	62	0	100.00%	17	0	100.00%
OMSNP0252846	G	A	APLN	Y	class0	0	16	0.00%	0	5	0.00%	30	0	100.00%	15	0	100.00%
OMSNP0155920	A	G	MILL-like	N	class4	12	0	100.00%	0	0	-	0	16	0.00%	0	2	0.00%
OMSNP0155921	A	G	MILL-like	Y	class0	0	10	0.00%	0	0	-	14	0	100.00%	1	0	100.00%
OMSNP0252847	T	C	MILL-like	Y	class5	0	7	0.00%	0	0	-	9	0	100.00%	1	0	100.00%
OMSNP0252848	C	A	MILL-like	Y	class5	0	6	0.00%	0	0	-	8	0	100.00%	1	0	100.00%
OMSNP0155923	G	A	MILL-like	Y	class5	0	10	0.00%	0	0	-	15	0	100.00%	3	0	100.00%
OMSNP0222928	T	C	MILL-like	Y	class3	1	9	10.00%	0	0	-	16	0	100.00%	0	0	-
OMSNP0222931	A	G	MILL-like	Y	class3	0	12	0.00%	0	1	0.00%	9	0	100.00%	4	0	100.00%
OMSNP0252851	G	A	MILL-like	Y	class0	0	9	0.00%	0	3	0.00%	11	0	100.00%	0	0	-
OMSNP0252852	T	C	MILL-like	Y	class3	0	12	0.00%	0	0	-	7	0	100.00%	0	0	-
OMSNP0222932	T	C	XPNPEP2	Y	class1	0	11	0.00%	0	4	0.00%	15	0	100.00%	5	0	100.00%
OMSNP0252853	G	A	XPNPEP2	N	class6	13	0	100.00%	4	0	100.00%	0	24	0.00%	0	5	0.00%
OMSNP0252854	A	G	XPNPEP2	N	class6	11	0	100.00%	2	0	100.00%	0	18	0.00%	0	6	0.00%
OMSNP0222939	T	A	BCORL1	Y	class1	0	8	0.00%	0	7	0.00%	1	0	100.00%	6	0	100.00%
OMSNP0155944	G	T	ELF4	Y	class1	0	11	0.00%	0	3	0.00%	6	0	100.00%	1	0	100.00%
OMSNP0155945	G	A	ELF4	Y	class5	0	6	0.00%	0	0	-	11	0	100.00%	0	0	-
OMSNP0155948	A	G	ELF4	Y	class3	0	12	0.00%	0	3	0.00%	5	0	100.00%	2	0	100.00%
OMSNP0155962	C	T	RAB33A	N	class6	15	0	100.00%	34	0	100.00%	0	14	0.00%	0	38	0.00%
OMSNP0155963	G	A	RAB33A	N	class6	30	0	100.00%	97	0	100.00%	0	19	0.00%	0	110	0.00%
OMSNP0155964	G	A	RAB33A	N	class6	19	0	100.00%	120	0	100.00%	0	53	0.00%	0	138	0.00%
OMSNP0155994	G	A	HS6ST2	Y	class5	0	26	0.00%	0	25	0.00%	31	0	100.00%	38	0	100.00%

SNP_ID	ref allele	alter allele	gene name	LL1 has ref allele	SNP Class	A0571_b1 (LL2xLL1, brain)			A0571_b4 (LL2xLL1, brain)			A0579_b3 (LL1xLL2, brain)			A0579_b4 (LL1xLL2, brain)		
						ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %
OMSNP0156005	G	A	<i>GPC4</i>	Y	class1	0	159	0.00%	0	199	0.00%	208	0	100.00%	176	0	100.00%
OMSNP0156006	T	A	<i>GPC4</i>	N	class6	105	0	100.00%	98	0	100.00%	0	109	0.00%	1	130	0.76%
OMSNP0156007	T	C	<i>GPC3</i>	N	class0	14	0	100.00%	37	0	100.00%	0	25	0.00%	0	45	0.00%
OMSNP0252876	A	G	<i>GPC3</i>	Y	class0	0	6	0.00%	0	23	0.00%	14	0	100.00%	24	0	100.00%
OMSNP0156011	T	C	<i>GPC3</i>	N	class6	10	0	100.00%	13	0	100.00%	0	8	0.00%	0	18	0.00%
OMSNP0156044	G	A	<i>HPRT1</i>	N	class6	55	0	100.00%	32	0	100.00%	0	127	0.00%	0	59	0.00%
OMSNP0222971	C	T	<i>HPRT1</i>	Y	class1	0	10	0.00%	0	4	0.00%	12	0	100.00%	9	0	100.00%
OMSNP0156076	G	A	<i>MOSPD1</i>	N	class6	72	0	100.00%	52	0	100.00%	2	56	3.45%	5	31	13.89%
OMSNP0252903	C	G	<i>DDX26B</i>	N	class0	5	0	100.00%	16	0	100.00%	0	8	0.00%	0	26	0.00%
OMSNP0156082	G	A	<i>DDX26B</i>	N	class0	8	0	100.00%	43	0	100.00%	0	8	0.00%	0	31	0.00%
OMSNP0156083	G	A	<i>DDX26B</i>	N	class0	5	0	100.00%	33	0	100.00%	0	8	0.00%	0	33	0.00%
OMSNP0252905	A	G	<i>LOC100024466</i>	N	class6	8	0	100.00%	32	0	100.00%	0	9	0.00%	0	12	0.00%
OMSNP0156087	C	T	<i>LOC100024466</i>	Y	class5	0	6	0.00%	3	44	6.38%	26	0	100.00%	48	0	100.00%
OMSNP0156093	A	G	<i>FMR1</i>	Y	class1	0	42	0.00%	0	55	0.00%	94	0	100.00%	83	0	100.00%
OMSNP0156099	A	G	<i>FMR1</i>	Y	class1	0	214	0.00%	0	204	0.00%	147	0	100.00%	184	0	100.00%
OMSNP0156105	C	A	<i>IDS</i>	Y	class1	1	31	3.13%	0	35	0.00%	27	0	100.00%	35	0	100.00%
OMSNP0156106	A	G	<i>IDS</i>	Y	class1	0	10	0.00%	0	14	0.00%	8	0	100.00%	4	0	100.00%
OMSNP0156107	G	C	<i>IDS</i>	Y	class1	0	25	0.00%	0	20	0.00%	11	0	100.00%	13	0	100.00%
OMSNP0156108	C	A	<i>IDS</i>	Y	class1	0	22	0.00%	0	21	0.00%	12	0	100.00%	12	0	100.00%
OMSNP0156109	A	C	<i>IDS</i>	Y	class5	1	54	1.82%	1	55	1.79%	52	0	100.00%	32	0	100.00%
OMSNP0223012	T	C	<i>MTM1</i>	Y	class3	0	55	0.00%	1	56	1.75%	63	0	100.00%	66	0	100.00%
OMSNP0223013	C	T	<i>MTM1</i>	Y	class1	0	2	0.00%	0	5	0.00%	7	0	100.00%	2	0	100.00%
OMSNP0156112	C	T	<i>MTM1</i>	Y	class5	0	8	0.00%	0	3	0.00%	12	0	100.00%	10	0	100.00%
OMSNP0156142	C	T	<i>GPR50</i>	Y	class0	2	303	0.66%	0	9	0.00%	238	0	100.00%	7	0	100.00%
OMSNP0156144	T	A	<i>GPR50</i>	Y	class0	1	684	0.15%	0	30	0.00%	664	0	100.00%	7	0	100.00%
OMSNP0252932	A	C	<i>GABRE</i>	Y	class1	0	8	0.00%	0	18	0.00%	19	0	100.00%	30	0	100.00%
OMSNP0252933	G	A	<i>GABRA3</i>	Y	class1	0	11	0.00%	0	23	0.00%	8	0	100.00%	26	0	100.00%
OMSNP0156147	A	G	<i>GABRA3</i>	Y	class1	0	20	0.00%	0	86	0.00%	10	0	100.00%	61	0	100.00%
OMSNP0156148	T	C	<i>GABRA3</i>	Y	class1	0	12	0.00%	0	52	0.00%	14	0	100.00%	43	0	100.00%
OMSNP0252934	T	C	<i>GABRA3</i>	Y	class5	0	8	0.00%	0	33	0.00%	11	0	100.00%	16	0	100.00%
OMSNP0156149	G	A	<i>GABRA3</i>	Y	class5	0	12	0.00%	0	40	0.00%	3	0	100.00%	28	0	100.00%
OMSNP0156150	T	G	<i>GABRA3</i>	Y	class1	0	9	0.00%	0	50	0.00%	8	0	100.00%	39	0	100.00%
OMSNP0156151	G	C	<i>GABRA3</i>	Y	class5	0	13	0.00%	1	54	1.82%	11	0	100.00%	22	0	100.00%
OMSNP0156152	G	A	<i>GABRQ</i>	Y	class5	0	6	0.00%	0	49	0.00%	13	0	100.00%	34	0	100.00%
OMSNP0156179	T	C	<i>CENPBD1</i>	Y	class1	3	50	5.66%	1	69	1.43%	46	0	100.00%	96	0	100.00%
OMSNP0156180	C	G	<i>CENPBD1</i>	Y	class1	3	13	18.75%	0	38	0.00%	32	0	100.00%	47	0	100.00%
OMSNP0156181	C	T	<i>CENPBD1</i>	Y	class3	5	20	20.00%	0	33	0.00%	54	0	100.00%	97	0	100.00%

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						ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %
OMSNP0223028	G	A	<i>CENPBD1</i>	Y	class3	0	6	0.00%	1	13	7.14%	12	0	100.00%	11	0	100.00%
OMSNP0156201	G	A	<i>ARHGEF6</i>	Y	class5	0	17	0.00%	0	11	0.00%	25	0	100.00%	18	0	100.00%
OMSNP0252958	A	T	<i>TM9SF2</i>	Y	class5	0	8	0.00%	0	4	0.00%	8	0	100.00%	5	0	100.00%
OMSNP0156217	C	T	<i>TM9SF2</i>	Y	class1	0	30	0.00%	0	20	0.00%	28	0	100.00%	28	0	100.00%
OMSNP0156218	C	T	<i>TM9SF2</i>	N	class6	17	0	100.00%	7	0	100.00%	0	15	0.00%	0	2	0.00%
OMSNP0252961	A	C	<i>ZIC3</i>	Y	class3	0	9	0.00%	0	24	0.00%	5	0	100.00%	26	0	100.00%
OMSNP0156219	A	G	<i>FGF13</i>	Y	class1	0	33	0.00%	0	58	0.00%	12	0	100.00%	48	0	100.00%
OMSNP0156220	A	G	<i>FGF13</i>	Y	class1	0	67	0.00%	0	76	0.00%	25	0	100.00%	68	0	100.00%
OMSNP0156221	A	G	<i>FGF13</i>	Y	class1	0	109	0.00%	0	198	0.00%	99	0	100.00%	238	0	100.00%
OMSNP0156222	C	A	<i>FGF13</i>	Y	class1	0	47	0.00%	0	62	0.00%	39	0	100.00%	117	0	100.00%
OMSNP0156223	T	C	<i>FGF13</i>	Y	class1	0	89	0.00%	0	191	0.00%	78	0	100.00%	238	0	100.00%
OMSNP0156224	T	C	<i>FGF13</i>	Y	class1	0	84	0.00%	0	96	0.00%	60	0	100.00%	141	0	100.00%
OMSNP0156225	G	A	<i>FGF13</i>	Y	class1	0	36	0.00%	0	78	0.00%	40	0	100.00%	85	0	100.00%
OMSNP0156226	A	G	<i>FGF13</i>	Y	class1	0	67	0.00%	0	146	0.00%	80	0	100.00%	191	0	100.00%
OMSNP0156227	T	A	<i>FGF13</i>	Y	class1	0	48	0.00%	0	132	0.00%	60	0	100.00%	178	0	100.00%
OMSNP0156228	G	A	<i>FGF13</i>	Y	class1	0	49	0.00%	0	127	0.00%	83	0	100.00%	188	0	100.00%
OMSNP0156229	A	C	<i>FGF13</i>	Y	class3	1	35	2.78%	0	88	0.00%	47	0	100.00%	130	0	100.00%
OMSNP0156230	G	C	<i>FGF13</i>	Y	class1	0	18	0.00%	0	96	0.00%	26	0	100.00%	89	0	100.00%
OMSNP0223055	A	G	<i>SLITRK4</i>	Y	class1	0	15	0.00%	0	11	0.00%	15	0	100.00%	12	0	100.00%
OMSNP0156281	T	C	<i>SLITRK4</i>	Y	class1	0	15	0.00%	0	15	0.00%	7	0	100.00%	8	0	100.00%
OMSNP0156282	G	T	<i>SLITRK4</i>	Y	class1	0	31	0.00%	0	27	0.00%	40	0	100.00%	29	0	100.00%
OMSNP0156283	T	C	<i>SLITRK4</i>	Y	class1	0	29	0.00%	0	17	0.00%	50	0	100.00%	31	0	100.00%
OMSNP0252966	T	A	<i>SLITRK2</i>	Y	class5	0	4	0.00%	0	16	0.00%	8	0	100.00%	4	0	100.00%
OMSNP0252968	C	T	<i>SLITRK2</i>	Y	class5	0	11	0.00%	0	19	0.00%	13	0	100.00%	10	0	100.00%
OMSNP0252969	A	G	<i>SLITRK2</i>	Y	class5	0	11	0.00%	0	18	0.00%	17	0	100.00%	15	0	100.00%
OMSNP0156314	T	C	<i>chrX.608.1</i>	Y	class5	0	33	0.00%	0	35	0.00%	47	0	100.00%	13	0	100.00%
OMSNP0252982	C	A	<i>POU3F4</i>	Y	class1	0	8	0.00%	0	23	0.00%	7	0	100.00%	24	0	100.00%
OMSNP0156357	C	T	<i>POU3F4</i>	Y	class3	0	21	0.00%	0	28	0.00%	20	0	100.00%	47	0	100.00%
OMSNP0156371	T	C	<i>ZNF711</i>	Y	class1	0	18	0.00%	0	29	0.00%	18	0	100.00%	25	0	100.00%
OMSNP0223082	T	C	<i>CHM</i>	Y	class5	0	11	0.00%	0	1	0.00%	0	0	-	5	0	100.00%
OMSNP0156372	A	G	<i>CHM</i>	Y	class5	1	17	5.56%	0	10	0.00%	9	0	100.00%	13	0	100.00%
OMSNP0156398	C	T	<i>UPRT</i>	Y	class5	0	85	0.00%	0	140	0.00%	128	0	100.00%	142	0	100.00%
OMSNP0156403	A	G	<i>ZDHHC15</i>	Y	class1	0	20	0.00%	0	26	0.00%	20	0	100.00%	36	0	100.00%
OMSNP0156404	C	T	<i>ZDHHC15</i>	Y	class5	0	22	0.00%	0	31	0.00%	27	0	100.00%	35	0	100.00%
OMSNP0156405	G	A	<i>ZDHHC15</i>	Y	class5	0	20	0.00%	0	22	0.00%	25	0	100.00%	39	0	100.00%
OMSNP0156406	C	T	<i>ZDHHC15</i>	Y	class5	0	21	0.00%	0	21	0.00%	14	0	100.00%	20	0	100.00%
OMSNP0156407	G	C	<i>ZDHHC15</i>	Y	class5	0	26	0.00%	0	16	0.00%	21	0	100.00%	29	0	100.00%

SNP_ID	ref allele	alter allele	gene name	LL1 has ref allele	SNP Class	A0571_b1 (LL2xLL1, brain)			A0571_b4 (LL2xLL1, brain)			A0579_b3 (LL1xLL2, brain)			A0579_b4 (LL1xLL2, brain)		
						ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %
OMSNP0156409	G	T	<i>ZDHHC15</i>	Y	class1	0	24	0.00%	0	16	0.00%	17	0	100.00%	25	0	100.00%
OMSNP0223099	T	C	<i>ZDHHC15</i>	Y	class1	0	11	0.00%	0	15	0.00%	20	0	100.00%	15	0	100.00%
OMSNP0252991	T	C	<i>ZDHHC15</i>	Y	class1	0	14	0.00%	0	8	0.00%	13	0	100.00%	4	0	100.00%
OMSNP0156410	A	G	<i>ZDHHC15</i>	Y	class5	0	20	0.00%	0	22	0.00%	26	0	100.00%	22	0	100.00%
OMSNP0156411	T	C	<i>ZDHHC15</i>	Y	class5	0	20	0.00%	0	19	0.00%	30	0	100.00%	32	0	100.00%
OMSNP0156421	C	T	<i>MAGT1</i>	Y	class5	1	223	0.45%	2	90	2.17%	227	0	100.00%	101	0	100.00%
OMSNP0156460	C	T	<i>COX7B</i>	Y	class1	0	99	0.00%	0	89	0.00%	129	0	100.00%	225	0	100.00%
OMSNP0156461	G	A	<i>ATP7A</i>	Y	class0	1	47	2.08%	0	16	0.00%	36	0	100.00%	32	0	100.00%
OMSNP0253025	T	C	<i>FNDCC3C1</i>	Y	class3	0	24	0.00%	0	3	0.00%	20	0	100.00%	2	0	100.00%
OMSNP0156531	A	G	<i>ITM2A</i>	Y	class1	5	1484	0.34%	4	309	1.28%	2041	0	100.00%	232	0	100.00%
OMSNP0223148	A	G	<i>TBX22</i>	Y	class1	0	22	0.00%	0	2	0.00%	26	0	100.00%	1	0	100.00%
OMSNP0223149	C	T	<i>TBX22</i>	Y	class1	0	17	0.00%	0	1	0.00%	24	0	100.00%	3	0	100.00%
OMSNP0223150	C	G	<i>TBX22</i>	Y	class1	0	29	0.00%	0	4	0.00%	27	0	100.00%	2	0	100.00%
OMSNP0223152	A	G	<i>TBX22</i>	Y	class1	0	7	0.00%	0	2	0.00%	8	0	100.00%	4	0	100.00%
OMSNP0223155	C	T	<i>TBX22</i>	Y	class1	0	24	0.00%	0	1	0.00%	17	0	100.00%	2	0	100.00%
OMSNP0156532	T	C	<i>CHMP1B</i>	Y	class1	0	49	0.00%	0	22	0.00%	49	0	100.00%	39	0	100.00%
OMSNP0253031	C	T	<i>FAM46D</i>	Y	class0	0	20	0.00%	0	45	0.00%	27	0	100.00%	74	0	100.00%
OMSNP0223159	A	C	<i>BRWD3</i>	Y	class1	0	10	0.00%	0	11	0.00%	7	0	100.00%	10	0	100.00%
OMSNP0156580	G	A	<i>chrX.714.1</i>	Y	class5	0	48	0.00%	0	248	0.00%	75	0	100.00%	134	0	100.00%
OMSNP0156630	G	A	<i>PCDH11X</i>	Y	class0	0	42	0.00%	0	13	0.00%	61	0	100.00%	13	0	100.00%
OMSNP0156650	G	A	<i>CSNK1A1-like</i>	Y	class5	0	173	0.00%	0	194	0.00%	218	0	100.00%	288	0	100.00%
OMSNP0156680	G	A	<i>SET-transposed</i>	Y	class5	0	59	0.00%	0	75	0.00%	59	0	100.00%	59	0	100.00%
OMSNP0253053	T	C	<i>PCDH19</i>	Y	class5	0	7	0.00%	0	14	0.00%	2	0	100.00%	14	0	100.00%
OMSNP0253054	C	A	<i>PCDH19</i>	Y	class5	0	10	0.00%	0	16	0.00%	7	0	100.00%	15	0	100.00%
OMSNP0253055	C	G	<i>PCDH19</i>	Y	class5	0	9	0.00%	0	20	0.00%	7	0	100.00%	14	0	100.00%
OMSNP0156779	C	A	<i>PLS3</i>	Y	class5	1	315	0.32%	5	119	4.03%	180	0	100.00%	90	0	100.00%
OMSNP0156785	T	C	<i>AMOT</i>	Y	class5	1	102	0.97%	1	132	0.75%	110	0	100.00%	83	0	100.00%
OMSNP0156787	A	G	<i>AMOT</i>	Y	class5	0	106	0.00%	0	136	0.00%	138	0	100.00%	120	0	100.00%
OMSNP0223250	A	T	<i>AMOT</i>	Y	class5	0	5	0.00%	0	15	0.00%	16	0	100.00%	10	0	100.00%
OMSNP0223251	C	T	<i>AMOT</i>	Y	class5	0	15	0.00%	0	6	0.00%	11	0	100.00%	9	0	100.00%
OMSNP0156802	A	G	<i>DCX</i>	Y	class0	1	28	3.45%	1	68	1.45%	39	0	100.00%	39	0	100.00%
OMSNP0156804	T	C	<i>DCX</i>	Y	class5	0	124	0.00%	1	458	0.22%	151	0	100.00%	349	0	100.00%
OMSNP0156805	A	G	<i>DCX</i>	Y	class5	1	112	0.88%	2	469	0.42%	162	0	100.00%	253	0	100.00%
OMSNP0156806	G	A	<i>DCX</i>	Y	class5	0	161	0.00%	1	515	0.19%	143	0	100.00%	418	0	100.00%
OMSNP0156807	C	A	<i>DCX</i>	Y	class5	1	87	1.14%	3	280	1.06%	151	0	100.00%	298	0	100.00%
OMSNP0156808	C	T	<i>DCX</i>	Y	class5	0	127	0.00%	1	446	0.22%	131	0	100.00%	416	0	100.00%
OMSNP0156809	A	G	<i>DCX</i>	Y	class5	2	102	1.92%	3	356	0.84%	165	0	100.00%	322	0	100.00%

SNP_ID	ref allele	alter allele	gene name	LL1 has ref allele	SNP Class	A0571_b1 (LL2xLL1, brain)			A0571_b4 (LL2xLL1, brain)			A0579_b3 (LL1xLL2, brain)			A0579_b4 (LL1xLL2, brain)		
						ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %
OMSNP0156810	T	C	DCX	Y	class5	1	177	0.56%	0	486	0.00%	194	0	100.00%	410	0	100.00%
OMSNP0253105	G	A	CAPN6	Y	class0	0	25	0.00%	0	8	0.00%	6	0	100.00%	7	0	100.00%
OMSNP0253106	T	C	CAPN6	Y	class5	0	20	0.00%	0	14	0.00%	24	0	100.00%	14	0	100.00%
OMSNP0156811	T	C	PAK3	Y	class5	0	67	0.00%	1	157	0.63%	60	0	100.00%	147	0	100.00%
OMSNP0156812	C	T	ENSMODG000000005275	Y	class5	2	17	10.53%	0	20	0.00%	19	0	100.00%	20	0	100.00%
OMSNP0156840	A	G	APEX2	Y	class5	0	27	0.00%	0	55	0.00%	21	0	100.00%	40	0	100.00%
OMSNP0156888	C	T	ZMYM3	Y	class5	0	12	0.00%	0	22	0.00%	11	2	84.62%	15	0	100.00%
OMSNP0156889	A	G	ZMYM3	Y	class5	0	22	0.00%	0	35	0.00%	26	0	100.00%	23	0	100.00%
OMSNP0156894	C	T	NLGN3	Y	class5	0	19	0.00%	2	63	3.08%	16	0	100.00%	51	0	100.00%
OMSNP0156900	A	G	SNX12	Y	class5	0	178	0.00%	0	113	0.00%	226	0	100.00%	179	0	100.00%
OMSNP0156903	A	G	DLG3	Y	class5	0	16	0.00%	0	44	0.00%	17	0	100.00%	21	0	100.00%
OMSNP0156905	G	A	DLG3	Y	class5	1	10	9.09%	0	29	0.00%	10	0	100.00%	35	0	100.00%
OMSNP0156906	A	G	DLG3	Y	class5	0	29	0.00%	0	71	0.00%	28	0	100.00%	56	0	100.00%
OMSNP0253129	T	C	DLG3	Y	class5	0	2	0.00%	0	28	0.00%	8	0	100.00%	10	0	100.00%
OMSNP0253130	G	A	GDPD2	Y	class5	0	5	0.00%	0	28	0.00%	6	0	100.00%	22	0	100.00%
OMSNP0253133	T	C	GDPD2	Y	class5	0	3	0.00%	0	15	0.00%	4	0	100.00%	15	0	100.00%
OMSNP0156925	A	G	PDZD11	Y	class5	9	223	3.88%	4	147	2.65%	195	0	100.00%	167	0	100.00%
OMSNP0156932	A	G	IGBP1	Y	class5	0	57	0.00%	1	97	1.02%	87	0	100.00%	77	0	100.00%
OMSNP0223350	T	C	EDA	Y	class5	0	14	0.00%	0	9	0.00%	13	0	100.00%	10	0	100.00%
OMSNP0223351	A	G	EDA	Y	class5	0	9	0.00%	0	12	0.00%	19	0	100.00%	15	0	100.00%
OMSNP0223352	G	A	EDA	Y	class5	0	18	0.00%	0	6	0.00%	10	0	100.00%	11	0	100.00%
OMSNP0223353	C	G	EDA	Y	class5	0	8	0.00%	0	11	0.00%	14	0	100.00%	5	0	100.00%
OMSNP0223354	C	T	EDA	Y	class5	0	12	0.00%	0	15	0.00%	16	0	100.00%	13	0	100.00%
OMSNP0223355	C	T	EDA	Y	class5	0	17	0.00%	1	7	12.50%	11	0	100.00%	10	0	100.00%
OMSNP0223356	C	T	EDA	Y	class5	0	15	0.00%	1	5	16.67%	11	0	100.00%	10	0	100.00%
OMSNP0223358	C	T	EDA	Y	class5	0	11	0.00%	0	11	0.00%	17	0	100.00%	5	0	100.00%
OMSNP0156941	G	A	KCTD12B	Y	class5	0	64	0.00%	1	37	2.63%	81	0	100.00%	45	0	100.00%
OMSNP0156942	C	G	KLF8	Y	class5	0	107	0.00%	1	171	0.58%	101	0	100.00%	142	0	100.00%
OMSNP0156943	A	G	KLF8	Y	class5	1	66	1.49%	0	160	0.00%	86	0	100.00%	142	0	100.00%
OMSNP0157209	T	C	ERCC6L	Y	class5	0	32	0.00%	0	53	0.00%	36	0	100.00%	50	0	100.00%
OMSNP0157217	G	A	chrX.911.1	Y	class0	0	7	0.00%	0	23	0.00%	10	0	100.00%	15	0	100.00%
OMSNP0157218	A	T	chrX.911.1	Y	class0	0	16	0.00%	0	17	0.00%	21	0	100.00%	25	0	100.00%
OMSNP0157241	A	G	SHROOM4	Y	class5	0	45	0.00%	1	21	4.55%	76	0	100.00%	25	0	100.00%
OMSNP0157278	A	G	DDB2-transposed	Y	class5	0	41	0.00%	1	65	1.52%	47	0	100.00%	63	0	100.00%
OMSNP0157279	G	C	DDB2-transposed	Y	class5	0	30	0.00%	0	39	0.00%	30	0	100.00%	62	0	100.00%
OMSNP0157280	G	A	DDB2-transposed	Y	class5	0	17	0.00%	2	44	4.35%	23	0	100.00%	43	0	100.00%
OMSNP0157281	C	T	DDB2-transposed	Y	class5	0	30	0.00%	0	82	0.00%	43	0	100.00%	55	0	100.00%

SNP_ID	ref allele	alter allele	gene name	LL1 has ref allele	SNP Class	A0571_b1 (LL2xLL1, brain)			A0571_b4 (LL2xLL1, brain)			A0579_b3 (LL1xLL2, brain)			A0579_b4 (LL1xLL2, brain)		
						ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %
OMSNP0157298	G	T	<i>DDB2-transposed</i>	Y	class5	1	6	14.29%	0	33	0.00%	10	0	100.00%	18	0	100.00%
OMSNP0157299	G	T	<i>DIAPH2</i>	Y	class5	0	10	0.00%	0	5	0.00%	10	0	100.00%	14	0	100.00%
OMSNP0157303	A	G	<i>DIAPH2</i>	Y	class5	0	36	0.00%	0	26	0.00%	32	0	100.00%	33	0	100.00%
OMSNP0157322	G	A	<i>WDR44</i>	Y	class5	0	82	0.00%	0	61	0.00%	61	0	100.00%	48	0	100.00%
OMSNP0157326	C	T	<i>IL13RA1</i>	Y	class5	0	85	0.00%	1	13	7.14%	87	0	100.00%	17	0	100.00%
OMSNP0157327	A	G	<i>IL13RA1</i>	Y	class5	0	113	0.00%	0	17	0.00%	121	0	100.00%	16	0	100.00%
OMSNP0157330	A	G	<i>MCART6</i>	Y	class5	2	606	0.33%	0	1808	0.00%	750	0	100.00%	1922	0	100.00%
OMSNP0157368	T	C	<i>TIMM8A</i>	Y	class5	2	322	0.62%	2	273	0.73%	401	0	100.00%	256	0	100.00%
OMSNP0157398	T	C	<i>SYTL4</i>	Y	class0	0	15	0.00%	0	0	-	17	0	100.00%	5	0	100.00%

SNP_ID	ref allele	alter allele	gene name	LL1 has ref allele	SNP Class	A0571_p1 (LL2xLL1, EEM)			A0571_p4 (LL2xLL1, EEM)			A0579_p3 (LL1xLL2, EEM)			A0579_p4 (LL1xLL2, EEM)		
						ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %
OMSNP0149087	G	T	ABCB7	Y	class5	1	44	2.22%	0	38	0.00%	22	0	100.00%	18	0	100.00%
OMSNP0149088	A	G	SLC16A2	Y	class1	0	55	0.00%	1	44	2.22%	23	0	100.00%	23	0	100.00%
OMSNP0149089	T	C	SLC16A2	Y	class1	0	58	0.00%	0	23	0.00%	21	0	100.00%	22	0	100.00%
OMSNP0149090	G	A	SLC16A2	Y	class1	0	23	0.00%	0	13	0.00%	8	0	100.00%	6	0	100.00%
OMSNP0151045	C	G	MTMR8	Y	class5	0	14	0.00%	0	16	0.00%	16	0	100.00%	10	0	100.00%
OMSNP0152558	G	A	SLC9A6	N	class2	49	0	100.00%	22	0	100.00%	0	30	0.00%	0	28	0.00%
OMSNP0152559	C	T	SLC9A6	Y	class5	0	34	0.00%	0	22	0.00%	26	0	100.00%	20	0	100.00%
OMSNP0152561	A	G	SLC9A6	Y	class5	1	38	2.56%	1	31	3.13%	27	0	100.00%	23	0	100.00%
OMSNP0152563	G	A	SLC9A6	N	class6	13	0	100.00%	14	0	100.00%	0	5	0.00%	0	15	0.00%
OMSNP0154449	C	T	EMD	Y	class0	0	534	0.00%	1	311	0.32%	378	0	100.00%	320	0	100.00%
OMSNP0154863	A	G	TAZ	Y	class5	5	131	3.68%	6	89	6.32%	77	0	100.00%	98	0	100.00%
OMSNP0154864	A	G	TAZ	Y	class1	1	35	2.78%	4	36	10.00%	46	0	100.00%	28	0	100.00%
OMSNP0154909	G	A	FAM3A	Y	class5	14	263	5.05%	7	172	3.91%	155	0	100.00%	119	0	100.00%
OMSNP0154922	G	T	FAM3A	Y	class3	2	12	14.29%	0	8	0.00%	11	0	100.00%	8	0	100.00%
OMSNP0154923	G	C	FAM3A	Y	class3	1	13	7.14%	0	10	0.00%	9	0	100.00%	6	0	100.00%
OMSNP0154958	T	G	SEPHS2	Y	class5	2	115	1.71%	2	66	2.94%	56	0	100.00%	50	0	100.00%
OMSNP0154982	C	A	MPP1	Y	class0	1	76	1.30%	0	59	0.00%	56	0	100.00%	31	0	100.00%
OMSNP0154992	T	C	MPP1	Y	class0	1	238	0.42%	0	181	0.00%	176	0	100.00%	156	0	100.00%
OMSNP0155001	C	G	MPP1	Y	class5	0	9	0.00%	0	7	0.00%	12	0	100.00%	17	0	100.00%
OMSNP0155011	C	A	SMAD4-transposed	Y	class1	0	18	0.00%	0	15	0.00%	15	0	100.00%	16	0	100.00%
OMSNP0155012	T	C	SMAD4-transposed	Y	class3	0	5	0.00%	0	7	0.00%	4	0	100.00%	2	0	100.00%
OMSNP0155013	G	A	SMAD4-transposed	Y	class3	0	7	0.00%	0	5	0.00%	2	0	100.00%	8	0	100.00%
OMSNP0155014	C	T	SMAD4-transposed	Y	class0	0	13	0.00%	0	3	0.00%	1	0	100.00%	7	0	100.00%
OMSNP0252689	G	A	SMAD4-transposed	Y	class0	0	8	0.00%	0	9	0.00%	2	0	100.00%	4	0	100.00%
OMSNP0155015	G	A	TMLHE	Y	class3	0	10	0.00%	0	8	0.00%	9	0	100.00%	3	0	100.00%
OMSNP0155016	A	G	TMLHE	Y	class3	0	10	0.00%	0	6	0.00%	5	0	100.00%	4	0	100.00%
OMSNP0155017	C	T	TMLHE	Y	class0	0	7	0.00%	0	3	0.00%	4	0	100.00%	4	0	100.00%
OMSNP0222567	T	G	TMLHE	Y	class3	0	8	0.00%	0	7	0.00%	3	0	100.00%	4	0	100.00%
OMSNP0155018	T	G	TMLHE	Y	class3	0	15	0.00%	0	4	0.00%	4	0	100.00%	4	0	100.00%
OMSNP0155021	G	A	TMLHE	Y	class3	0	18	0.00%	0	7	0.00%	4	0	100.00%	0	0	-
OMSNP0155022	C	T	TMLHE	Y	class3	0	13	0.00%	0	7	0.00%	11	0	100.00%	3	0	100.00%
OMSNP0155024	A	G	TMLHE	Y	class0	0	9	0.00%	0	7	0.00%	6	0	100.00%	7	0	100.00%
OMSNP0155025	G	A	TMLHE	Y	class0	0	15	0.00%	0	8	0.00%	5	0	100.00%	4	0	100.00%
OMSNP0155029	A	G	VAMP7	Y	class5	1	108	0.92%	0	74	0.00%	72	0	100.00%	84	0	100.00%
OMSNP0155030	C	T	VAMP7	Y	class5	0	52	0.00%	0	36	0.00%	17	0	100.00%	38	0	100.00%
OMSNP0155031	A	G	VAMP7	Y	class5	0	63	0.00%	1	39	2.50%	51	0	100.00%	49	0	100.00%
OMSNP0155032	A	C	VAMP7	Y	class5	2	83	2.35%	0	64	0.00%	54	0	100.00%	61	0	100.00%

SNP_ID	ref allele	alter allele	gene name	LL1 has ref allele	SNP Class	A0571_p1 (LL2xLL1, EEM)			A0571_p4 (LL2xLL1, EEM)			A0579_p3 (LL1xLL2, EEM)			A0579_p4 (LL1xLL2, EEM)		
						ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %
OMSNP0155036	G	A	F8A1	Y	class5	1	111	0.89%	2	69	2.82%	59	0	100.00%	37	0	100.00%
OMSNP0155037	T	C	F8A1	Y	class5	2	172	1.15%	0	139	0.00%	112	0	100.00%	97	0	100.00%
OMSNP0155046	A	C	ZNF673	Y	class0	0	14	0.00%	0	19	0.00%	14	0	100.00%	18	5	78.26%
OMSNP0155047	T	C	ZNF673	Y	class0	0	26	0.00%	0	25	0.00%	24	0	100.00%	17	0	100.00%
OMSNP0155048	T	C	ACSL4	Y	class5	0	29	0.00%	0	29	0.00%	37	0	100.00%	21	0	100.00%
OMSNP0155049	G	A	ACSL4	Y	class0	1	24	4.00%	0	15	0.00%	18	0	100.00%	25	0	100.00%
OMSNP0155050	A	G	ACSL4	Y	class5	0	40	0.00%	0	39	0.00%	58	0	100.00%	33	0	100.00%
OMSNP0155055	G	A	TMEM164	Y	class0	0	55	0.00%	0	32	0.00%	38	0	100.00%	30	0	100.00%
OMSNP0155056	A	T	TMEM164	Y	class0	2	109	1.80%	0	58	0.00%	44	0	100.00%	31	0	100.00%
OMSNP0155057	G	A	TMEM164	Y	class0	1	106	0.93%	1	43	2.27%	58	0	100.00%	29	0	100.00%
OMSNP0155058	C	T	TMEM164	Y	class0	0	120	0.00%	0	65	0.00%	73	0	100.00%	55	0	100.00%
OMSNP0155059	T	C	TMEM164	Y	class0	0	126	0.00%	1	74	1.33%	69	0	100.00%	44	0	100.00%
OMSNP0155060	A	G	TMEM164	Y	class0	0	68	0.00%	0	58	0.00%	46	0	100.00%	48	0	100.00%
OMSNP0155061	C	T	AMMECR1	Y	class3	0	20	0.00%	0	23	0.00%	15	0	100.00%	7	0	100.00%
OMSNP0155062	A	C	AMMECR1	Y	class3	0	33	0.00%	0	25	0.00%	12	0	100.00%	12	0	100.00%
OMSNP0155064	A	C	NXT1	Y	class3	0	66	0.00%	0	46	0.00%	60	0	100.00%	51	0	100.00%
OMSNP0222593	G	A	COL4A5	Y	class3	1	9	10.00%	0	6	0.00%	9	0	100.00%	2	0	100.00%
OMSNP0155072	C	T	COL4A5	Y	class0	0	17	0.00%	0	24	0.00%	13	0	100.00%	9	0	100.00%
OMSNP0155073	A	G	COL4A5	Y	class1	0	62	0.00%	0	39	0.00%	30	0	100.00%	21	0	100.00%
OMSNP0155075	A	G	COL4A5	Y	class0	0	35	0.00%	0	30	0.00%	19	0	100.00%	12	0	100.00%
OMSNP0155076	C	T	COL4A5	Y	class0	0	37	0.00%	0	32	0.00%	20	0	100.00%	9	0	100.00%
OMSNP0155092	G	A	MID2	Y	class5	0	81	0.00%	1	70	1.41%	104	0	100.00%	106	0	100.00%
OMSNP0155095	G	A	STARD8	Y	class5	0	19	0.00%	0	7	0.00%	6	0	100.00%	5	0	100.00%
OMSNP0155096	G	A	STARD8	Y	class0	0	27	0.00%	0	17	0.00%	5	0	100.00%	2	0	100.00%
OMSNP0155097	A	G	STARD8	Y	class0	0	7	0.00%	0	10	0.00%	6	0	100.00%	6	0	100.00%
OMSNP0155098	C	A	STARD8	Y	class0	0	18	0.00%	0	6	0.00%	6	0	100.00%	4	0	100.00%
OMSNP0155099	A	C	STARD8	Y	class0	0	8	0.00%	0	12	0.00%	3	0	100.00%	5	0	100.00%
OMSNP0252705	G	A	OPHN1	Y	class5	0	5	0.00%	0	4	0.00%	4	0	100.00%	1	0	100.00%
OMSNP0155113	G	C	OPHN1	Y	class5	0	16	0.00%	0	4	0.00%	1	0	100.00%	5	0	100.00%
OMSNP0155114	G	A	OPHN1	Y	class0	0	13	0.00%	0	9	0.00%	2	0	100.00%	8	0	100.00%
OMSNP0155115	C	T	OPHN1	Y	class0	0	18	0.00%	0	2	0.00%	6	0	100.00%	6	0	100.00%
OMSNP0155116	C	A	OPHN1	Y	class5	0	9	0.00%	0	5	0.00%	3	0	100.00%	9	0	100.00%
OMSNP0155117	G	A	OPHN1	Y	class5	0	12	0.00%	0	3	0.00%	3	0	100.00%	6	0	100.00%
OMSNP0155118	A	G	OPHN1	Y	class5	0	12	0.00%	0	5	0.00%	6	0	100.00%	5	0	100.00%
OMSNP0155119	T	C	OPHN1	Y	class0	0	13	0.00%	0	5	0.00%	7	0	100.00%	8	0	100.00%
OMSNP0155120	G	A	OPHN1	Y	class0	0	14	0.00%	0	6	0.00%	13	0	100.00%	6	0	100.00%
OMSNP0155121	T	G	OPHN1	Y	class0	0	13	0.00%	0	15	0.00%	2	0	100.00%	8	0	100.00%

SNP_ID	ref allele	alter allele	gene name	LL1 has ref allele	SNP Class	A0571_p1 (LL2xLL1, EEM)			A0571_p4 (LL2xLL1, EEM)			A0579_p3 (LL1xLL2, EEM)			A0579_p4 (LL1xLL2, EEM)		
						ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %
OMSNP0155122	T	G	OPHN1	Y	class0	0	10	0.00%	0	12	0.00%	8	0	100.00%	6	0	100.00%
OMSNP0155123	G	C	OPHN1	Y	class0	0	25	0.00%	0	10	0.00%	9	0	100.00%	12	0	100.00%
OMSNP0155124	C	T	OPHN1	Y	class0	0	10	0.00%	0	5	0.00%	5	0	100.00%	6	0	100.00%
OMSNP0155125	G	A	OPHN1	Y	class0	0	9	0.00%	0	13	0.00%	4	0	100.00%	6	0	100.00%
OMSNP0155127	G	A	OPHN1	Y	class0	0	10	0.00%	0	9	0.00%	4	0	100.00%	11	0	100.00%
OMSNP0155128	T	C	OPHN1	Y	class0	0	9	0.00%	0	11	0.00%	8	0	100.00%	8	0	100.00%
OMSNP0155129	G	A	OPHN1	Y	class0	0	16	0.00%	0	15	0.00%	8	0	100.00%	10	0	100.00%
OMSNP0155130	G	A	OPHN1	Y	class0	0	22	0.00%	1	5	16.67%	16	0	100.00%	2	0	100.00%
OMSNP0155131	T	C	OPHN1	Y	class0	0	18	0.00%	0	5	0.00%	16	0	100.00%	2	0	100.00%
OMSNP0155132	T	C	OPHN1	Y	class0	0	12	0.00%	0	11	0.00%	8	0	100.00%	6	0	100.00%
OMSNP0155133	T	C	OPHN1	Y	class0	0	17	0.00%	0	11	0.00%	13	0	100.00%	10	0	100.00%
OMSNP0155142	C	T	EDA2R	Y	class0	0	11	0.00%	0	8	0.00%	3	0	100.00%	4	0	100.00%
OMSNP0155143	T	C	EDA2R	Y	class3	0	19	0.00%	0	3	0.00%	5	0	100.00%	5	0	100.00%
OMSNP0155144	A	T	EDA2R	Y	class3	0	7	0.00%	0	3	0.00%	6	0	100.00%	9	0	100.00%
OMSNP0252709	C	T	HEPH	Y	class5	0	13	0.00%	0	7	0.00%	5	0	100.00%	6	0	100.00%
OMSNP0252710	T	A	HEPH	Y	class0	0	14	0.00%	0	16	0.00%	6	0	100.00%	14	0	100.00%
OMSNP0252713	G	A	HEPH	Y	class0	0	14	0.00%	0	9	0.00%	5	0	100.00%	7	0	100.00%
OMSNP0252714	C	T	HEPH	Y	class0	0	18	0.00%	0	6	0.00%	10	0	100.00%	12	0	100.00%
OMSNP0252716	A	G	HEPH	Y	class0	0	17	0.00%	0	16	0.00%	2	0	100.00%	7	0	100.00%
OMSNP0252717	C	T	HEPH	Y	class0	0	26	0.00%	0	10	0.00%	8	0	100.00%	8	0	100.00%
OMSNP0155147	T	C	HEPH	Y	class5	0	33	0.00%	0	24	0.00%	29	0	100.00%	10	0	100.00%
OMSNP0155148	G	A	HEPH	Y	class1	0	30	0.00%	0	35	0.00%	18	0	100.00%	8	0	100.00%
OMSNP0155149	C	G	HEPH	Y	class1	0	22	0.00%	0	17	0.00%	14	0	100.00%	9	0	100.00%
OMSNP0155159	T	C	HSF3	Y	class0	1	28	3.45%	0	18	0.00%	45	0	100.00%	37	0	100.00%
OMSNP0155164	A	G	HSF3	Y	class1	0	19	0.00%	1	21	4.55%	22	0	100.00%	22	0	100.00%
OMSNP0155166	C	T	HSF3	Y	class0	0	33	0.00%	1	23	4.17%	21	0	100.00%	25	0	100.00%
OMSNP0155167	C	A	HSF3	Y	class0	2	26	7.14%	0	32	0.00%	27	0	100.00%	35	0	100.00%
OMSNP0155168	G	A	MSN	Y	class5	2	597	0.33%	8	486	1.62%	388	0	100.00%	315	0	100.00%
OMSNP0155169	G	C	MSN	Y	class0	2	495	0.40%	1	400	0.25%	317	0	100.00%	221	0	100.00%
OMSNP0155170	C	A	MSN	Y	class0	0	493	0.00%	2	363	0.55%	304	0	100.00%	281	0	100.00%
OMSNP0155171	A	G	MSN	Y	class1	6	463	1.28%	5	422	1.17%	328	0	100.00%	320	0	100.00%
OMSNP0155219	T	C	PNCK	Y	class1	0	13	0.00%	0	4	0.00%	15	0	100.00%	10	0	100.00%
OMSNP0155248	G	T	BCAP31	Y	class0	31	508	5.75%	25	412	5.72%	468	0	100.00%	373	0	100.00%
OMSNP0155251	T	C	ABCD1	Y	class1	0	20	0.00%	0	10	0.00%	11	0	100.00%	8	0	100.00%
OMSNP0155252	T	C	ABCD1	Y	class0	0	17	0.00%	1	20	4.76%	12	0	100.00%	6	0	100.00%
OMSNP0155253	T	G	ABCD1	Y	class0	0	19	0.00%	0	17	0.00%	11	0	100.00%	5	0	100.00%
OMSNP0222648	T	C	ABCD1	Y	class0	0	11	0.00%	0	11	0.00%	6	0	100.00%	3	0	100.00%

SNP_ID	ref allele	alter allele	gene name	LL1 has ref allele	SNP Class	A0571_p1 (LL2xLL1, EEM)			A0571_p4 (LL2xLL1, EEM)			A0579_p3 (LL1xLL2, EEM)			A0579_p4 (LL1xLL2, EEM)		
						ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %
OMSNP0252732	G	A	PLXNB3	Y	class0	0	7	0.00%	0	4	0.00%	9	0	100.00%	5	0	100.00%
OMSNP0252733	A	G	PLXNB3	Y	class0	0	6	0.00%	0	2	0.00%	8	0	100.00%	8	0	100.00%
OMSNP0155254	T	C	SRPK3	Y	class0	0	4	0.00%	0	4	0.00%	1	0	100.00%	2	0	100.00%
OMSNP0155293	T	C	L1CAM	Y	class0	0	6	0.00%	0	7	0.00%	4	0	100.00%	1	0	100.00%
OMSNP0155294	G	A	L1CAM	Y	class5	0	7	0.00%	0	7	0.00%	6	0	100.00%	0	0	-
OMSNP0155327	C	T	RBM41	Y	class5	0	25	0.00%	0	24	0.00%	18	0	100.00%	21	0	100.00%
OMSNP0155329	C	G	RBM41	Y	class5	0	21	0.00%	0	7	0.00%	13	0	100.00%	19	0	100.00%
OMSNP0222689	G	T	TBC1D8B	Y	class0	0	13	0.00%	0	9	0.00%	3	0	100.00%	4	0	100.00%
OMSNP0222690	T	C	TBC1D8B	Y	class0	0	13	0.00%	0	10	0.00%	3	0	100.00%	4	0	100.00%
OMSNP0155336	C	T	TBC1D8B	Y	class5	0	14	0.00%	1	13	7.14%	16	0	100.00%	12	0	100.00%
OMSNP0155337	C	T	TBC1D8B	Y	class5	0	15	0.00%	1	14	6.67%	22	0	100.00%	16	0	100.00%
OMSNP0155338	G	A	TBC1D8B	Y	class5	0	37	0.00%	0	35	0.00%	28	0	100.00%	26	0	100.00%
OMSNP0155339	C	A	TBC1D8B	Y	class0	0	26	0.00%	0	19	0.00%	22	0	100.00%	22	0	100.00%
OMSNP0155340	T	C	TBC1D8B	Y	class0	0	40	0.00%	0	32	0.00%	25	0	100.00%	18	0	100.00%
OMSNP0155341	A	C	TBC1D8B	Y	class0	0	33	0.00%	0	31	0.00%	23	0	100.00%	19	0	100.00%
OMSNP0155342	C	T	TBC1D8B	Y	class5	0	32	0.00%	0	21	0.00%	23	0	100.00%	15	0	100.00%
OMSNP0155343	T	C	TBC1D8B	Y	class0	0	23	0.00%	0	21	0.00%	20	0	100.00%	11	0	100.00%
OMSNP0155344	T	C	TBC1D8B	Y	class0	0	12	0.00%	0	18	0.00%	20	0	100.00%	13	0	100.00%
OMSNP0155345	C	T	TBC1D8B	Y	class5	1	12	7.69%	0	10	0.00%	3	0	100.00%	4	0	100.00%
OMSNP0252747	G	T	RNF128	Y	class5	0	42	0.00%	0	21	0.00%	29	0	100.00%	26	0	100.00%
OMSNP0155346	A	G	NXT2	Y	class5	1	232	0.43%	0	183	0.00%	174	0	100.00%	190	0	100.00%
OMSNP0155349	A	G	NXT2	Y	class5	0	291	0.00%	5	304	1.62%	287	0	100.00%	235	0	100.00%
OMSNP0155350	C	T	NXT2	Y	class5	3	209	1.42%	4	190	2.06%	151	0	100.00%	213	0	100.00%
OMSNP0155353	G	C	NXT2	Y	class5	0	147	0.00%	3	131	2.24%	295	0	100.00%	269	0	100.00%
OMSNP0155354	T	G	NXT2	Y	class5	0	98	0.00%	1	89	1.11%	177	0	100.00%	203	0	100.00%
OMSNP0155355	A	G	NXT2	Y	class0	0	211	0.00%	0	210	0.00%	146	0	100.00%	157	0	100.00%
OMSNP0155356	A	C	NXT2	Y	class0	0	13	0.00%	0	18	0.00%	3	0	100.00%	16	0	100.00%
OMSNP0155357	C	T	LOC100028767	Y	class0	0	11	0.00%	0	7	0.00%	7	0	100.00%	11	0	100.00%
OMSNP0155358	C	T	LOC100028767	Y	class5	0	21	0.00%	1	11	8.33%	5	0	100.00%	12	0	100.00%
OMSNP0155359	G	A	LOC100028767	Y	class5	0	14	0.00%	0	9	0.00%	4	0	100.00%	7	0	100.00%
OMSNP0155360	G	A	LOC100028767	Y	class0	0	10	0.00%	0	6	0.00%	12	0	100.00%	3	0	100.00%
OMSNP0155361	T	G	LAS1L	Y	class0	0	36	0.00%	0	19	0.00%	27	0	100.00%	21	0	100.00%
OMSNP0222713	C	T	LAS1L	Y	class0	2	46	4.17%	6	19	24.00%	29	0	100.00%	45	0	100.00%
OMSNP0155398	C	G	LAS1L	Y	class0	0	60	0.00%	2	25	7.41%	18	0	100.00%	27	0	100.00%
OMSNP0155453	A	G	TKTL1	Y	class5	2	28	6.67%	3	18	14.29%	25	0	100.00%	20	0	100.00%
OMSNP0155468	T	A	LOC100029725	Y	class0	0	26	0.00%	0	14	0.00%	19	0	100.00%	21	0	100.00%
OMSNP0155591	G	A	STAG2	N	class2	446	0	100.00%	370	0	100.00%	3	299	0.99%	8	365	2.14%

SNP_ID	ref allele	alter allele	gene name	LL1 has ref allele	SNP Class	A0571_p1 (LL2xLL1, EEM)			A0571_p4 (LL2xLL1, EEM)			A0579_p3 (LL1xLL2, EEM)			A0579_p4 (LL1xLL2, EEM)		
						ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %
OMSNP0252772	A	G	ODZ1	N	class0	8	0	100.00%	8	0	100.00%	0	2	0.00%	0	8	0.00%
OMSNP0252773	T	C	ODZ1	N	class4	3	0	100.00%	4	0	100.00%	0	4	0.00%	0	12	0.00%
OMSNP0155663	A	G	ashwin-like	Y	class3	0	4	0.00%	0	5	0.00%	5	0	100.00%	1	0	100.00%
OMSNP0155666	C	T	LUC7L2-transposed	Y	class5	0	30	0.00%	0	28	0.00%	22	0	100.00%	13	0	100.00%
OMSNP0222799	A	G	LUC7L2-transposed	Y	class5	0	5	0.00%	0	2	0.00%	3	0	100.00%	5	0	100.00%
OMSNP0222800	A	C	LUC7L2-transposed	Y	class5	0	5	0.00%	0	12	0.00%	2	0	100.00%	5	0	100.00%
OMSNP0155693	C	T	ANKRD54-like	Y	class5	0	87	0.00%	0	96	0.00%	69	0	100.00%	77	0	100.00%
OMSNP0155694	C	A	ANKRD54-like	Y	class0	0	57	0.00%	0	48	0.00%	20	0	100.00%	19	0	100.00%
OMSNP0155695	G	A	ANKRD54-like	Y	class5	0	112	0.00%	1	146	0.68%	88	0	100.00%	87	0	100.00%
OMSNP0155701	A	C	novelX_03_L2_Mars	Y	class0	0	11	0.00%	0	9	0.00%	8	0	100.00%	9	0	100.00%
OMSNP0155702	T	C	novelX_03_L2_Mars	Y	class0	0	17	0.00%	0	23	0.00%	28	0	100.00%	20	0	100.00%
OMSNP0155703	C	T	novelX_03_L2_Mars	Y	class5	2	16	11.11%	0	11	0.00%	16	0	100.00%	12	0	100.00%
OMSNP0155705	C	G	novelX_03_L2_Mars	Y	class5	1	12	7.69%	0	9	0.00%	15	0	100.00%	19	0	100.00%
OMSNP0155709	T	G	novelX_03_L2_Mars	Y	class5	0	21	0.00%	0	19	0.00%	13	0	100.00%	12	0	100.00%
OMSNP0155710	A	G	novelX_03_L2_Mars	Y	class5	1	18	5.26%	1	32	3.03%	27	0	100.00%	13	0	100.00%
OMSNP0155711	A	G	novelX_03_L2_Mars	Y	class5	1	16	5.88%	1	33	2.94%	27	0	100.00%	9	0	100.00%
OMSNP0155712	G	A	novelX_03_L2_Mars	Y	class5	1	22	4.35%	1	12	7.69%	15	0	100.00%	15	0	100.00%
OMSNP0155713	G	A	novelX_03_L2_Mars	Y	class0	0	4	0.00%	0	5	0.00%	9	0	100.00%	11	0	100.00%
OMSNP0155717	A	G	novelX_04_L2_Mars	Y	class5	1	81	1.22%	0	62	0.00%	27	0	100.00%	26	0	100.00%
OMSNP0222817	A	G	novelX_04_L2_Mars	Y	class1	0	9	0.00%	0	3	0.00%	7	0	100.00%	17	0	100.00%
OMSNP0155718	A	G	novelX_04_L2_Mars	Y	class0	0	26	0.00%	0	26	0.00%	20	0	100.00%	36	0	100.00%
OMSNP0155719	G	A	novelX_04_L2_Mars	Y	class0	0	27	0.00%	0	28	0.00%	20	0	100.00%	38	0	100.00%
OMSNP0155720	A	T	novelX_04_L2_Mars	Y	class5	0	37	0.00%	1	58	1.69%	32	0	100.00%	19	0	100.00%
OMSNP0155721	T	C	novelX_04_L2_Mars	Y	class0	0	140	0.00%	1	118	0.84%	99	0	100.00%	105	0	100.00%
OMSNP0155722	C	T	novelX_04_L2_Mars	Y	class0	0	124	0.00%	0	133	0.00%	97	0	100.00%	95	0	100.00%
OMSNP0155723	G	A	novelX_04_L2_Mars	Y	class5	5	132	3.65%	1	107	0.93%	124	0	100.00%	81	0	100.00%
OMSNP0155724	T	G	novelX_04_L2_Mars	Y	class5	5	141	3.42%	1	103	0.96%	104	0	100.00%	92	0	100.00%
OMSNP0155725	G	A	novelX_04_L2_Mars	Y	class1	6	130	4.41%	1	87	1.14%	106	0	100.00%	87	0	100.00%
OMSNP0222830	C	T	ASB12	Y	class3	0	3	0.00%	1	3	25.00%	3	0	100.00%	4	0	100.00%
OMSNP0222831	G	T	FAM123B	Y	class0	0	5	0.00%	0	1	0.00%	5	0	100.00%	1	0	100.00%
OMSNP0155778	C	T	FAM123B	Y	class0	0	5	0.00%	0	7	0.00%	5	0	100.00%	6	0	100.00%
OMSNP0155779	G	A	FAM123B	Y	class1	0	6	0.00%	0	7	0.00%	4	0	100.00%	6	0	100.00%
OMSNP0155780	T	C	FAM123B	Y	class0	0	19	0.00%	0	14	0.00%	3	0	100.00%	4	0	100.00%
OMSNP0155781	G	A	FAM123B	Y	class0	0	17	0.00%	0	11	0.00%	12	0	100.00%	14	0	100.00%
OMSNP0155782	T	C	FAM123B	Y	class5	0	6	0.00%	0	5	0.00%	4	0	100.00%	6	0	100.00%
OMSNP0155783	T	G	FAM123B	Y	class1	0	6	0.00%	0	0	-	5	0	100.00%	7	0	100.00%
OMSNP0155784	C	T	FAM123B	Y	class5	1	10	9.09%	0	7	0.00%	10	0	100.00%	7	0	100.00%

SNP_ID	ref allele	alter allele	gene name	LL1 has ref allele	SNP Class	A0571_p1 (LL2xLL1, EEM)			A0571_p4 (LL2xLL1, EEM)			A0579_p3 (LL1xLL2, EEM)			A0579_p4 (LL1xLL2, EEM)		
						ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %
OMSNP0155785	G	A	FAM123B	Y	class1	1	11	8.33%	0	11	0.00%	10	0	100.00%	9	0	100.00%
OMSNP0155786	G	A	FAM123B	Y	class1	0	8	0.00%	0	8	0.00%	5	0	100.00%	5	0	100.00%
OMSNP0155805	G	A	PGRMC1	N	class6	1113	0	100.00%	816	0	100.00%	3	702	0.43%	14	617	2.22%
OMSNP0155806	G	A	AKAP17B	Y	class5	0	6	0.00%	0	12	0.00%	8	0	100.00%	6	0	100.00%
OMSNP0155807	G	A	AKAP17B	N	class6	15	0	100.00%	15	0	100.00%	0	4	0.00%	0	10	0.00%
OMSNP0155838	G	A	SEPT6	Y	class5	2	16	11.11%	0	7	0.00%	16	0	100.00%	4	0	100.00%
OMSNP0155878	C	T	UPF3B	N	class6	16	0	100.00%	14	0	100.00%	0	11	0.00%	0	10	0.00%
OMSNP0155883	G	A	NDUFA1	N	class6	49	0	100.00%	46	0	100.00%	0	50	0.00%	1	50	1.96%
OMSNP0155884	A	T	NDUFA1	N	class6	37	0	100.00%	22	0	100.00%	0	25	0.00%	0	31	0.00%
OMSNP0155885	A	G	ZBTB33	N	class6	6	0	100.00%	11	0	100.00%	0	16	0.00%	0	6	0.00%
OMSNP0155887	C	T	CUL4B	N	class6	76	0	100.00%	63	0	100.00%	2	46	4.17%	0	72	0.00%
OMSNP0155888	T	C	CUL4B	N	class6	49	0	100.00%	33	0	100.00%	0	46	0.00%	0	27	0.00%
OMSNP0155906	G	A	SMARCA1	N	class2	49	0	100.00%	46	0	100.00%	1	34	2.86%	0	23	0.00%
OMSNP0155908	G	A	SMARCA1	Y	class5	0	58	0.00%	0	31	0.00%	23	0	100.00%	22	0	100.00%
OMSNP0155910	G	A	OCRL	Y	class1	0	3	0.00%	0	6	0.00%	6	0	100.00%	5	0	100.00%
OMSNP0155911	G	A	OCRL	N	class2	16	0	100.00%	21	0	100.00%	0	10	0.00%	0	10	0.00%
OMSNP0155920	A	G	MILL-like	N	class4	23	0	100.00%	10	0	100.00%	0	11	0.00%	0	3	0.00%
OMSNP0155921	A	G	MILL-like	Y	class0	0	25	0.00%	0	9	0.00%	13	0	100.00%	15	0	100.00%
OMSNP0252847	T	C	MILL-like	Y	class5	0	17	0.00%	0	10	0.00%	10	0	100.00%	9	0	100.00%
OMSNP0252848	C	A	MILL-like	Y	class5	0	18	0.00%	0	11	0.00%	10	0	100.00%	9	0	100.00%
OMSNP0155923	G	A	MILL-like	Y	class5	0	26	0.00%	0	20	0.00%	19	0	100.00%	13	0	100.00%
OMSNP0222928	T	C	MILL-like	Y	class3	0	15	0.00%	0	13	0.00%	5	0	100.00%	9	0	100.00%
OMSNP0222931	A	G	MILL-like	Y	class3	0	7	0.00%	0	11	0.00%	12	0	100.00%	9	0	100.00%
OMSNP0252851	G	A	MILL-like	Y	class0	0	10	0.00%	0	9	0.00%	5	0	100.00%	8	0	100.00%
OMSNP0252852	T	C	MILL-like	Y	class3	0	12	0.00%	0	2	0.00%	5	0	100.00%	11	0	100.00%
OMSNP0222939	T	A	BCORL1	Y	class1	0	9	0.00%	0	5	0.00%	7	0	100.00%	3	0	100.00%
OMSNP0155944	G	T	ELF4	Y	class1	0	59	0.00%	0	41	0.00%	28	0	100.00%	36	0	100.00%
OMSNP0155945	G	A	ELF4	Y	class5	0	55	0.00%	0	35	0.00%	28	0	100.00%	25	0	100.00%
OMSNP0155947	C	T	ELF4	Y	class1	1	26	3.70%	0	26	0.00%	32	0	100.00%	21	0	100.00%
OMSNP0155948	A	G	ELF4	Y	class3	0	41	0.00%	0	28	0.00%	22	0	100.00%	14	0	100.00%
OMSNP0155964	G	A	RAB33A	N	class6	5	0	100.00%	3	0	100.00%	0	10	0.00%	0	1	0.00%
OMSNP0155992	T	G	HS6ST2	N	class0	6	0	100.00%	5	0	100.00%	0	10	0.00%	0	6	0.00%
OMSNP0156005	G	A	GPC4	Y	class1	0	149	0.00%	0	87	0.00%	51	0	100.00%	44	0	100.00%
OMSNP0156006	T	A	GPC4	N	class6	74	0	100.00%	44	0	100.00%	0	34	0.00%	0	16	0.00%
OMSNP0156011	T	C	GPC3	N	class6	21	0	100.00%	26	0	100.00%	0	26	0.00%	0	12	0.00%
OMSNP0156044	G	A	HPRT1	N	class6	22	0	100.00%	24	0	100.00%	0	15	0.00%	0	21	0.00%
OMSNP0222971	C	T	HPRT1	Y	class1	1	15	6.25%	0	12	0.00%	5	0	100.00%	4	0	100.00%

SNP_ID	ref allele	alter allele	gene name	LL1 has ref allele	SNP Class	A0571_p1 (LL2xLL1, EEM)			A0571_p4 (LL2xLL1, EEM)			A0579_p3 (LL1xLL2, EEM)			A0579_p4 (LL1xLL2, EEM)		
						ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %
OMSNP0156076	G	A	<i>MOSPD1</i>	N	class6	58	0	100.00%	46	0	100.00%	1	43	2.27%	0	52	0.00%
OMSNP0156087	C	T	<i>LOC100024466</i>	Y	class5	0	11	0.00%	0	5	0.00%	5	0	100.00%	4	0	100.00%
OMSNP0156093	A	G	<i>FMR1</i>	Y	class1	1	17	5.56%	0	11	0.00%	16	0	100.00%	14	0	100.00%
OMSNP0156099	A	G	<i>FMR1</i>	Y	class1	0	96	0.00%	0	55	0.00%	27	0	100.00%	33	0	100.00%
OMSNP0156105	C	A	<i>IDS</i>	Y	class1	1	61	1.61%	0	51	0.00%	41	0	100.00%	32	0	100.00%
OMSNP0156106	A	G	<i>IDS</i>	Y	class1	0	19	0.00%	0	23	0.00%	4	0	100.00%	11	0	100.00%
OMSNP0156107	G	C	<i>IDS</i>	Y	class1	0	30	0.00%	0	33	0.00%	16	0	100.00%	15	0	100.00%
OMSNP0156108	C	A	<i>IDS</i>	Y	class1	0	31	0.00%	0	34	0.00%	21	0	100.00%	17	0	100.00%
OMSNP0156109	A	C	<i>IDS</i>	Y	class5	0	83	0.00%	0	62	0.00%	40	0	100.00%	29	0	100.00%
OMSNP0223012	T	C	<i>MTM1</i>	Y	class3	0	37	0.00%	0	35	0.00%	47	0	100.00%	33	0	100.00%
OMSNP0223013	C	T	<i>MTM1</i>	Y	class1	0	7	0.00%	0	4	0.00%	5	0	100.00%	11	0	100.00%
OMSNP0156112	C	T	<i>MTM1</i>	Y	class5	3	9	25.00%	0	16	0.00%	13	0	100.00%	17	0	100.00%
OMSNP0156179	T	C	<i>CENPBD1</i>	Y	class1	1	34	2.86%	1	29	3.33%	8	0	100.00%	17	0	100.00%
OMSNP0156180	C	G	<i>CENPBD1</i>	Y	class1	0	6	0.00%	0	2	0.00%	21	0	100.00%	10	0	100.00%
OMSNP0156181	C	T	<i>CENPBD1</i>	Y	class3	0	14	0.00%	0	5	0.00%	11	0	100.00%	18	0	100.00%
OMSNP0156201	G	A	<i>ARHGEF6</i>	Y	class5	0	13	0.00%	0	7	0.00%	3	0	100.00%	9	0	100.00%
OMSNP0252958	A	T	<i>TM9SF2</i>	Y	class5	0	13	0.00%	0	9	0.00%	9	0	100.00%	4	0	100.00%
OMSNP0156217	C	T	<i>TM9SF2</i>	Y	class1	0	37	0.00%	0	45	0.00%	21	0	100.00%	23	0	100.00%
OMSNP0156218	C	T	<i>TM9SF2</i>	N	class6	17	0	100.00%	33	0	100.00%	0	9	0.00%	0	6	0.00%
OMSNP0156220	A	G	<i>FGF13</i>	Y	class1	0	9	0.00%	1	3	25.00%	2	0	100.00%	4	0	100.00%
OMSNP0156221	A	G	<i>FGF13</i>	Y	class1	0	13	0.00%	1	8	11.11%	12	0	100.00%	19	0	100.00%
OMSNP0156222	C	A	<i>FGF13</i>	Y	class1	0	7	0.00%	0	3	0.00%	10	0	100.00%	6	0	100.00%
OMSNP0156223	T	C	<i>FGF13</i>	Y	class1	1	21	4.55%	0	12	0.00%	6	0	100.00%	12	0	100.00%
OMSNP0156224	T	C	<i>FGF13</i>	Y	class1	0	8	0.00%	0	5	0.00%	10	0	100.00%	8	0	100.00%
OMSNP0156225	G	A	<i>FGF13</i>	Y	class1	0	9	0.00%	0	3	0.00%	5	0	100.00%	2	0	100.00%
OMSNP0156226	A	G	<i>FGF13</i>	Y	class1	0	9	0.00%	0	13	0.00%	16	0	100.00%	13	0	100.00%
OMSNP0156227	T	A	<i>FGF13</i>	Y	class1	0	7	0.00%	0	8	0.00%	14	0	100.00%	6	0	100.00%
OMSNP0156228	G	A	<i>FGF13</i>	Y	class1	0	23	0.00%	2	14	12.50%	6	0	100.00%	11	0	100.00%
OMSNP0156229	A	C	<i>FGF13</i>	Y	class3	0	9	0.00%	0	13	0.00%	6	0	100.00%	4	0	100.00%
OMSNP0156230	G	C	<i>FGF13</i>	Y	class1	0	5	0.00%	0	13	0.00%	5	0	100.00%	7	0	100.00%
OMSNP0223055	A	G	<i>SLITRK4</i>	Y	class1	0	7	0.00%	0	7	0.00%	4	0	100.00%	1	0	100.00%
OMSNP0156281	T	C	<i>SLITRK4</i>	Y	class1	0	10	0.00%	0	14	0.00%	6	0	100.00%	6	0	100.00%
OMSNP0156282	G	T	<i>SLITRK4</i>	Y	class1	0	16	0.00%	0	35	0.00%	18	0	100.00%	6	0	100.00%
OMSNP0156283	T	C	<i>SLITRK4</i>	Y	class1	0	18	0.00%	0	17	0.00%	15	0	100.00%	10	0	100.00%
OMSNP0223082	T	C	<i>CHM</i>	Y	class5	1	2	33.33%	0	14	0.00%	5	0	100.00%	14	0	100.00%
OMSNP0156372	A	G	<i>CHM</i>	Y	class5	5	14	26.32%	0	22	0.00%	10	0	100.00%	11	3	78.57%
OMSNP0156398	C	T	<i>UPRT</i>	Y	class5	1	92	1.08%	0	70	0.00%	77	0	100.00%	54	0	100.00%

SNP_ID	ref allele	alter allele	gene name	LL1 has ref allele	SNP Class	A0571_p1 (LL2xLL1, EEM)			A0571_p4 (LL2xLL1, EEM)			A0579_p3 (LL1xLL2, EEM)			A0579_p4 (LL1xLL2, EEM)		
						ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %
OMSNP0156403	A	G	ZDHHC15	Y	class1	0	6	0.00%	0	10	0.00%	3	0	100.00%	7	0	100.00%
OMSNP0156404	C	T	ZDHHC15	Y	class5	0	5	0.00%	0	6	0.00%	12	0	100.00%	7	0	100.00%
OMSNP0156405	G	A	ZDHHC15	Y	class5	1	9	10.00%	0	10	0.00%	6	0	100.00%	2	0	100.00%
OMSNP0156407	G	C	ZDHHC15	Y	class5	0	11	0.00%	0	11	0.00%	8	0	100.00%	5	0	100.00%
OMSNP0156409	G	T	ZDHHC15	Y	class1	0	7	0.00%	0	2	0.00%	1	0	100.00%	5	0	100.00%
OMSNP0223099	T	C	ZDHHC15	Y	class1	0	4	0.00%	0	4	0.00%	1	0	100.00%	4	0	100.00%
OMSNP0156410	A	G	ZDHHC15	Y	class5	0	19	0.00%	0	17	0.00%	6	0	100.00%	1	0	100.00%
OMSNP0156411	T	C	ZDHHC15	Y	class5	0	19	0.00%	0	13	0.00%	8	0	100.00%	15	0	100.00%
OMSNP0156421	C	T	MAGT1	Y	class5	1	107	0.93%	1	87	1.14%	94	0	100.00%	98	0	100.00%
OMSNP0156460	C	T	COX7B	Y	class1	1	41	2.38%	0	14	0.00%	33	0	100.00%	26	0	100.00%
OMSNP0156461	G	A	ATP7A	Y	class0	2	12	14.29%	1	16	5.88%	10	0	100.00%	9	0	100.00%
OMSNP0156531	A	G	ITM2A	Y	class1	1	11	8.33%	1	8	11.11%	5	0	100.00%	8	0	100.00%
OMSNP0156532	T	C	CHMP1B	Y	class1	0	68	0.00%	0	87	0.00%	69	0	100.00%	54	0	100.00%
OMSNP0156650	G	A	CSNK1A1-like	Y	class5	0	81	0.00%	1	73	1.35%	76	0	100.00%	44	0	100.00%
OMSNP0156680	G	A	SET-transposed	Y	class5	0	16	0.00%	0	9	0.00%	5	0	100.00%	6	0	100.00%
OMSNP0156779	C	A	PLS3	Y	class5	10	8015	0.12%	9	8307	0.11%	3440	0	100.00%	2974	0	100.00%
OMSNP0156785	T	C	AMOT	Y	class5	0	28	0.00%	0	18	0.00%	16	0	100.00%	24	0	100.00%
OMSNP0156787	A	G	AMOT	Y	class5	0	30	0.00%	1	33	2.94%	32	0	100.00%	26	0	100.00%
OMSNP0223250	A	T	AMOT	Y	class5	0	3	0.00%	0	6	0.00%	6	0	100.00%	3	0	100.00%
OMSNP0156812	C	T	ENSMODG00000005275	Y	class5	0	13	0.00%	0	6	0.00%	8	0	100.00%	9	0	100.00%
OMSNP0156840	A	G	APEX2	Y	class5	1	17	5.56%	0	16	0.00%	11	0	100.00%	11	0	100.00%
OMSNP0156888	C	T	ZMYM3	Y	class5	0	3	0.00%	0	8	0.00%	4	0	100.00%	4	0	100.00%
OMSNP0156889	A	G	ZMYM3	Y	class5	0	10	0.00%	0	10	0.00%	5	0	100.00%	6	0	100.00%
OMSNP0156894	C	T	NLGN3	Y	class5	0	10	0.00%	0	6	0.00%	9	0	100.00%	2	0	100.00%
OMSNP0156900	A	G	SNX12	Y	class5	1	161	0.62%	0	121	0.00%	149	0	100.00%	99	0	100.00%
OMSNP0156903	A	G	DLG3	Y	class5	0	9	0.00%	0	15	0.00%	3	0	100.00%	8	0	100.00%
OMSNP0156905	G	A	DLG3	Y	class5	0	8	0.00%	0	6	0.00%	11	0	100.00%	4	0	100.00%
OMSNP0156906	A	G	DLG3	Y	class5	0	18	0.00%	0	18	0.00%	18	0	100.00%	11	0	100.00%
OMSNP0156925	A	G	PDZD11	Y	class5	9	162	5.26%	2	139	1.42%	111	0	100.00%	92	0	100.00%
OMSNP0156932	A	G	IGBP1	Y	class5	0	55	0.00%	1	52	1.89%	28	0	100.00%	17	0	100.00%
OMSNP0156941	G	A	KCTD12B	Y	class5	0	34	0.00%	0	34	0.00%	24	0	100.00%	15	0	100.00%
OMSNP0156942	C	G	KLF8	Y	class5	1	98	1.01%	1	80	1.23%	90	0	100.00%	58	0	100.00%
OMSNP0156943	A	G	KLF8	Y	class5	0	66	0.00%	0	63	0.00%	55	0	100.00%	41	0	100.00%
OMSNP0157209	T	C	ERCC6L	Y	class5	0	12	0.00%	0	7	0.00%	4	0	100.00%	6	0	100.00%
OMSNP0157217	G	A	chrX.911.1	Y	class0	0	8	0.00%	0	4	0.00%	6	0	100.00%	7	0	100.00%
OMSNP0157218	A	T	chrX.911.1	Y	class0	0	6	0.00%	0	8	0.00%	6	0	100.00%	6	0	100.00%
OMSNP0157241	A	G	SHROOM4	Y	class5	0	18	0.00%	0	7	0.00%	15	0	100.00%	14	0	100.00%

SNP_ID	ref allele	alter allele	gene name	LL1 has ref allele	SNP Class	A0571_p1 (LL2xLL1, EEM)			A0571_p4 (LL2xLL1, EEM)			A0579_p3 (LL1xLL2, EEM)			A0579_p4 (LL1xLL2, EEM)		
						ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %	ref count	alter count	ref %
OMSNP0157278	A	G	<i>DDB2-transposed</i>	Y	class5	1	16	5.88%	0	11	0.00%	6	0	100.00%	6	0	100.00%
OMSNP0157279	G	C	<i>DDB2-transposed</i>	Y	class5	0	14	0.00%	2	9	18.18%	12	0	100.00%	5	0	100.00%
OMSNP0157280	G	A	<i>DDB2-transposed</i>	Y	class5	0	17	0.00%	0	8	0.00%	5	0	100.00%	14	0	100.00%
OMSNP0157281	C	T	<i>DDB2-transposed</i>	Y	class5	0	13	0.00%	1	14	6.67%	7	0	100.00%	12	0	100.00%
OMSNP0157299	G	T	<i>DIAPH2</i>	Y	class5	0	12	0.00%	0	18	0.00%	8	0	100.00%	4	0	100.00%
OMSNP0157303	A	G	<i>DIAPH2</i>	Y	class5	0	54	0.00%	0	28	0.00%	21	0	100.00%	14	0	100.00%
OMSNP0157322	G	A	<i>WDR44</i>	Y	class5	0	36	0.00%	0	35	0.00%	36	0	100.00%	23	0	100.00%
OMSNP0157326	C	T	<i>IL13RA1</i>	Y	class5	0	85	0.00%	0	65	0.00%	92	0	100.00%	87	0	100.00%
OMSNP0157327	A	G	<i>IL13RA1</i>	Y	class5	0	104	0.00%	0	72	0.00%	113	0	100.00%	130	0	100.00%
OMSNP0157330	A	G	<i>MCART6</i>	Y	class5	0	11	0.00%	1	4	20.00%	4	0	100.00%	5	0	100.00%
OMSNP0157368	T	C	<i>TIMM8A</i>	Y	class5	6	171	3.39%	11	139	7.33%	151	0	100.00%	113	0	100.00%
OMSNP0157398	T	C	<i>SYTL4</i>	Y	class0	0	119	0.00%	1	127	0.78%	174	0	100.00%	203	0	100.00%

Data S1C. Chromosome-wide imprinted XCI status profile in opossum fetal brain.

Ensembl Gene ID	Gene name	chr	strand	gstart	gend	Escaping_status
ENSMODG00000011942	<i>ABCB7</i>	chrUn	+	5921593	6060756	Nonescaper
ENSMODG00000011962	<i>SLC16A2</i>	chrUn	-	6391064	6485186	Nonescaper
ENSMODG00000019212	<i>MTMR8</i>	chrUn	-	27714896	27752929	Nonescaper
ENSMODG00000016493	<i>PICALM-like</i>	chrUn	+	37787958	37820070	Nonescaper
ENSMODG00000016496	<i>VBP1</i>	chrUn	+	37822819	37839702	Nonescaper
ENSMODG00000016498	<i>RAB39B</i>	chrUn	-	37852469	37871406	Nonescaper
ENSMODG00000020517	<i>SLC9A6</i>	chrUn	-	45980685	46014536	Nonescaper
ENSMODG00000002926	<i>EMD</i>	chrUn	-	75520887	75525671	Nonescaper
ENSMODG00000008710	<i>FLNA</i>	chrX	+	3105209	3140863	Escaper
ENSMODG00000008731	<i>RPL10</i>	chrX	+	3165304	3167648	Escaper
ENSMODG00000008763	<i>DNASE1L1</i>	chrX	-	3189790	3196603	Not Informative
ENSMODG00000008851	<i>TAZ</i>	chrX	+	3214100	3223327	Nonescaper
ENSMODG00000008869	<i>ATP6AP1</i>	chrX	+	3264100	3274025	Not Informative
ENSMODG00000008798	<i>GDI1</i>	chrX	+	3274568	3280669	Not Informative
ENSMODG00000008980	<i>PLXNA3</i>	chrX	+	3315995	3340956	Escaper
ENSMODG00000008997	<i>UBL4A</i>	chrX	-	3358102	3361805	Not Informative
ENSMODG00000009006	<i>SLC10A3</i>	chrX	-	3365540	3370837	Not Informative
ENSMODG00000009016	<i>FAM3A</i>	chrX	-	3388349	3401287	Nonescaper
ENSMODG00000009154	<i>G6PD</i>	chrX	-	3446455	3463577	Escaper
ENSMODG00000009175	<i>IKBK</i>	chrX	+	3464197	3520274	Escaper
ENSMODG00000009181	<i>SEPHS2</i>	chrX	-	3520340	3539155	Nonescaper
ENSMODG00000009243	<i>DKC1</i>	chrX	+	3923271	3932415	Escaper
ENSMODG00000009267	<i>MPP1</i>	chrX	-	3932474	3978594	Nonescaper
ENSMODG00000009313	<i>F8</i>	chrX	-	3994821	4064902	Nonescaper
ENSMODG00000025404	<i>CSNK1A1</i>	chrX	+	4313729	4315983	Not Informative
ENSMODG00000006103	<i>FAAH2</i>	chrX	-	4463035	4486967	Not Informative
ENSMODG00000006108	<i>SMAD4-transposed</i>	chrX	-	4504888	4507581	Nonescaper
ENSMODG00000006132	<i>TMLHE</i>	chrX	-	4510595	4559064	Nonescaper
ENSMODG00000025401	<i>SPRY3</i>	chrX	+	4709596	4727024	Nonescaper
ENSMODG00000006160	<i>VAMP7</i>	chrX	+	4899550	4941631	Nonescaper
ENSMODG00000006206	<i>F8A1</i>	chrX	+	4991430	4993788	Nonescaper
ENSMODG00000006229	<i>CLIC2</i>	chrX	+	5035766	5071736	Not Informative
ENSMODG00000011427	<i>TSC22D3</i>	chrX	-	5157728	5232590	Not Informative
ENSMODG00000004295	<i>ZNF673</i>	chrX	-	5269339	5289567	Nonescaper
ENSMODG00000011470	<i>ACSL4</i>	chrX	-	5422206	5486387	Nonescaper
ENSMODG00000025395	<i>TMEM164</i>	chrX	+	5728539	5851914	Nonescaper
ENSMODG00000011480	<i>AMMECR1</i>	chrX	-	5863886	5989831	Nonescaper
ENSMODG00000011492	<i>NXT1</i>	chrX	-	6178871	6186198	Nonescaper
ENSMODG00000011507	<i>IRS4</i>	chrX	+	6593043	6623701	Nonescaper
ENSMODG00000011584	<i>COL4A5</i>	chrX	-	6696574	6913864	Nonescaper
ENSMODG00000011603	<i>ATG4A</i>	chrX	-	7056565	7119137	Not Informative
ENSMODG00000011621	<i>PSMD10</i>	chrX	+	7119400	7140960	Not Informative
ENSMODG00000011644	<i>MID2</i>	chrX	-	7237343	7336990	Nonescaper
ENSMODG00000011680	<i>STARD8</i>	chrX	-	7386414	7442921	Nonescaper
ENSMODG00000011692	<i>YIPF6</i>	chrX	-	7573237	7594665	Escaper
ENSMODG00000025365	<i>OPHN1</i>	chrX	+	7626340	7856371	Nonescaper
ENSMODG00000012440	<i>EDA2R</i>	chrX	+	9175730	9214167	Nonescaper
ENSMODG00000012456	<i>HEPH</i>	chrX	-	9819311	9875150	Nonescaper

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HSF3	<i>HSF3</i>	chrX	+	9948318	10014085	Nonescaper
ENSMODG00000012494	<i>MSN</i>	chrX	-	10200865	10279691	Nonescaper*
ENSMODG00000007462	<i>RASL11C</i>	chrX	-	10441153	10453768	Not Informative
ENSMODG00000008043	<i>ECM2</i>	chrX	+	10992997	11014462	Nonescaper
ENSMODG00000008152	<i>ATP2B3</i>	chrX	+	11152653	11250565	Nonescaper
ENSMODG00000008192	<i>PNCK</i>	chrX	-	11418427	11426229	Nonescaper
ENSMODG00000008271	<i>SLC6A8</i>	chrX	+	11470037	11481630	Not Informative
ENSMODG00000008300	<i>BCAP31</i>	chrX	-	11484543	11515049	Nonescaper
ENSMODG00000008330	<i>ABCD1</i>	chrX	+	11515312	11537987	Nonescaper
ENSMODG00000008407	<i>PLXNB3</i>	chrX	+	11545260	11597567	Nonescaper
ENSMODG00000008568	<i>SRPK3</i>	chrX	-	11602014	11629038	Nonescaper
ENSMODG00000008581	<i>SSR4</i>	chrX	+	11629180	11633496	Not Informative
ENSMODG00000008596	<i>PDZD4</i>	chrX	-	11638567	11678420	Not Informative
ENSMODG00000008677	<i>L1CAM</i>	chrX	-	11702791	11736901	Nonescaper
ENSMODG00000002249	<i>CXorf41</i>	chrX	-	12038694	12110339	Not Informative
ENSMODG00000002278	<i>NUP62CL</i>	chrX	+	12110928	12167986	Escaper
ENSMODG00000002312	<i>RBM41</i>	chrX	+	12253749	12293248	Nonescaper
ENSMODG000000022844	<i>MORC4</i>	chrX	+	12294952	12340139	Not Informative
ENSMODG00000002345	<i>TBC1D8B</i>	chrX	-	12403104	12514782	Nonescaper
ENSMODG00000002362	<i>RNF128</i>	chrX	-	12548808	12671448	Nonescaper
ENSMODG000000021343	<i>NXT2</i>	chrX	+	12835738	12841514	Nonescaper
ENSMODG00000005162	<i>LOC100028767</i>	chrX	-	13186350	13195964	Nonescaper
ENSMODG00000005195	<i>LAS1L</i>	chrX	+	13387679	13401640	Nonescaper
ENSMODG00000005213	<i>ZC4H2</i>	chrX	+	13729609	13745381	Nonescaper
ENSMODG00000011534	<i>NUDT16</i>	chrX	-	14400416	14411429	Not Informative
ENSMODG00000011547	<i>NAA10</i>	chrX	-	14414830	14421724	Not Informative
ENSMODG00000011560	<i>RENBP</i>	chrX	-	14422066	14429057	Not Informative
ENSMODG00000011597	<i>HCFC1</i>	chrX	-	14438216	14468166	Escaper
ENSMODG000000025357	<i>TMEM187</i>	chrX	+	14468255	14476619	Not Informative
ENSMODG00000011627	<i>IRAK1</i>	chrX	-	14504588	14528117	Escaper
ENSMODG00000011643	<i>MECP2</i>	chrX	-	14534875	14616746	Escaper
ENSMODG00000011673	<i>TKTL1</i>	chrX	+	14723217	14749182	Nonescaper
ENSMODG00000011609	<i>LOC100029725</i>	chrX	+	14759963	14798905	Nonescaper
ENSMODG00000015003	<i>GRIA3</i>	chrX	+	16966632	17241680	Nonescaper
ENSMODG00000014984	<i>THOC2</i>	chrX	-	17318768	17411900	Not Informative
ENSMODG00000014970	<i>BIRC4</i>	chrX	+	17494448	17531404	Not Informative
ENSMODG00000014957	<i>STAG2</i>	chrX	+	17572521	17691053	Nonescaper
ENSMODG00000014906	<i>ODZ1</i>	chrX	-	17813548	18132320	Nonescaper
ENSMODG00000003195	<i>NRK</i>	chrX	+	21276512	21529239	Not Informative
ENSMODG00000002996	<i>CNOT7L</i>	chrX	-	21757856	21759510	Nonescaper
ENSMODG00000002991	<i>CNOT7L</i>	chrX	-	22041122	22043978	Not Informative
ENSMODG00000006985	<i>ashwin-like</i>	chrX	-	23021517	23029672	Nonescaper
ENSMODG000000025324	<i>LUC7L2-transposed</i>	chrX	-	23139014	23145594	Nonescaper
novelX_02**	<i>ANKRD54-like</i>	chrX	-	23225073	23234191	Nonescaper
ENSMODG00000007188	<i>FAM175A</i>	chrX	-	23731876	23750773	Not Informative
ENSMODG00000007190	<i>SMC6</i>	chrX	-	23789532	23801238	Nonescaper
ENSMODG00000017105	<i>PABPC1L2B</i>	chrX	-	24038298	24040657	Nonescaper
novelX_03**	<i>novelX_03_L2_Mars</i>	chrX	n	24139891	24142600	Nonescaper
novelX_04**	<i>novelX_04_L2_Mars</i>	chrX	-	24214434	24237610	Nonescaper
novelX_05**	<i>novelX_05_L1_Opos2</i>	chrX	n	24738927	24743767	Nonescaper

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ENSMODG00000007203	<i>ASB12</i>	chrX	+	24970366	24974439	Nonescaper
ENSMODG00000007211	<i>FAM123B</i>	chrX	+	24977793	25005892	Nonescaper
ENSMODG00000020838	<i>CHIC1</i>	chrX	-	26239291	26261123	Nonescaper
ENSMODG00000020842	<i>KDR1</i>	chrX	-	26626273	26780449	Nonescaper
ENSMODG00000020843	<i>ARHGEF9</i>	chrX	-	26872070	27028518	Not Informative
ENSMODG00000010141	<i>FAM199X</i>	chrX	-	27290094	27335525	Nonescaper
ENSMODG00000010165	<i>LONRF3</i>	chrX	+	27458993	27483253	Nonescaper
ENSMODG00000010181	<i>PGRMC1</i>	chrX	+	27516322	27519164	Nonescaper
ENSMODG00000010185	<i>AKAP17B</i>	chrX	-	27809292	27858556	Nonescaper
ENSMODG00000010189	<i>SLC25A43</i>	chrX	+	27904646	27953287	Not Informative
ENSMODG00000010197	<i>CXorf56</i>	chrX	-	28005543	28023431	Not Informative
ENSMODG00000010209	<i>UBE2A</i>	chrX	+	28032064	28042537	Not Informative
ENSMODG00000010215	<i>NKRF</i>	chrX	-	28045848	28061055	Not Informative
ENSMODG00000010221	<i>SEPT6</i>	chrX	-	28084648	28143099	Nonescaper
ENSMODG00000010232	<i>UPF3B</i>	chrX	-	28214148	28237827	Nonescaper
ENSMODG00000010245	<i>NDUFA1</i>	chrX	+	28244496	28251455	Nonescaper
ENSMODG00000025434	<i>ZBTB33</i>	chrX	+	28367127	28376610	Nonescaper
ENSMODG00000010283	<i>FAM70A</i>	chrX	-	28377764	28460589	Not Informative
ENSMODG00000010294	<i>ATP1B4</i>	chrX	+	28479669	28512525	Nonescaper
ENSMODG00000010311	<i>LAMP2</i>	chrX	-	28536774	28568064	Not Informative
ENSMODG00000010345	<i>CUL4B</i>	chrX	-	28613699	28657536	Nonescaper
ENSMODG00000010354	<i>MCTS1</i>	chrX	+	28718151	28726695	Not Informative
ENSMODG00000010359	<i>C1GALT1C1</i>	chrX	-	28734909	28742206	Not Informative
ENSMODG00000013187	<i>SMARCA1</i>	chrX	-	30863908	31013815	Nonescaper
ENSMODG00000013199	<i>OCRL</i>	chrX	+	31033015	31090356	Nonescaper
ENSMODG00000013204	<i>APLN</i>	chrX	-	31136090	31148689	Nonescaper
chrX.387.1	<i>MILL-like</i>	chrX	+	31172576	31183291	Nonescaper
ENSMODG00000013216	<i>XPNPEP2</i>	chrX	+	31194249	31244120	Nonescaper
ENSMODG00000013228	<i>ZDHHC9</i>	chrX	-	31282199	31320847	Not Informative
ENSMODG00000013238	<i>UTP14A</i>	chrX	+	31347869	31372394	Not Informative
ENSMODG00000013250	<i>BCORL1</i>	chrX	+	31464342	31506921	Nonescaper
ENSMODG00000013255	<i>ELF4</i>	chrX	-	31512918	31571682	Nonescaper
ENSMODG00000013265	<i>AIFM1</i>	chrX	-	31601731	31628338	Not Informative
ENSMODG00000013269	<i>RAB33A</i>	chrX	+	31659936	31673179	Nonescaper
ENSMODG00000015416	<i>ENOX2</i>	chrX	-	31733734	31919255	Not Informative
ENSMODG00000015323	<i>MST4</i>	chrX	+	32790747	32852655	Not Informative
ENSMODG00000015320	<i>FRMD7</i>	chrX	-	32852775	32945337	Escaper
ENSMODG00000015308	<i>RAP2C</i>	chrX	-	32969339	32990143	Nonescaper
ENSMODG00000015304	<i>MBNL3</i>	chrX	-	33084511	33309139	Not Informative
ENSMODG00000015297	<i>HS6ST2</i>	chrX	-	33496645	33780568	Nonescaper
ENSMODG00000015295	<i>GPC4</i>	chrX	-	34087454	34224779	Nonescaper
ENSMODG00000015268	<i>GPC3</i>	chrX	-	34349076	35120256	Nonescaper
ENSMODG00000025298	<i>CCDC160</i>	chrX	+	35245190	35256272	Not Informative
ENSMODG00000015259	<i>PHF6</i>	chrX	+	35482485	35517948	Escaper
ENSMODG00000015247	<i>HPRT1</i>	chrX	+	35567661	35597018	Nonescaper
ENSMODG00000015195	<i>FAM122B</i>	chrX	-	35981850	36030233	Escaper
ENSMODG00000015185	<i>FAM122A</i>	chrX	+	36032088	36053718	Escaper
ENSMODG00000015178	<i>MOSPD1</i>	chrX	-	36105099	36139695	Nonescaper
ENSMODG00000015168	<i>DDX26B</i>	chrX	+	36362217	36432623	Nonescaper
ENSMODG00000025280	<i>LOC100024466</i>	chrX	-	36442958	36447610	Nonescaper

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ENSMODG00000005550	<i>FMR1</i>	chrX	+	37379256	37440308	Nonescaper
ENSMODG00000005597	<i>IDS</i>	chrX	-	38768514	38798005	Nonescaper
ENSMODG00000005605	<i>TMEM185A</i>	chrX	+	38981953	39008626	Not Informative
ENSMODG00000005620	<i>CXorf40A-like</i>	chrX	-	39125750	39130837	Not Informative
ENSMODG00000005627	<i>MAMLD1</i>	chrX	+	39642330	39775623	Not Informative
ENSMODG00000005671	<i>MTM1</i>	chrX	+	39846675	39945407	Nonescaper
ENSMODG00000005714	<i>MTMR1</i>	chrX	+	39955149	40020995	Escaper
CD99L2	<i>CD99L2</i>	chrX	-	40027582	40182817	Escaper
ENSMODG00000005735	<i>HMGB3</i>	chrX	+	40252510	40265270	Escaper
ENSMODG00000005747	<i>GPR50</i>	chrX	+	40419142	40438912	Nonescaper
ENSMODG00000005753	<i>VMA21</i>	chrX	+	40638153	40648480	Not Informative
ENSMODG00000005850	<i>GABRE</i>	chrX	-	41324054	41373635	Nonescaper
ENSMODG00000005899	<i>GABRA3</i>	chrX	-	41443632	41648463	Nonescaper
ENSMODG00000005917	<i>GABRQ</i>	chrX	+	41846282	41917238	Nonescaper
ENSMODG00000005932	<i>CETN1</i>	chrX	-	42015516	42022547	Not Informative
ENSMODG00000005941	<i>NSDHL</i>	chrX	+	42022637	42058192	Not Informative
ENSMODG00000003985	<i>ZFP347L</i>	chrX	+	42203491	42231849	Not Informative
ENSMODG00000006016	<i>CENPBD1</i>	chrX	-	42241010	42258334	Nonescaper
ENSMODG000000014087	<i>HTATSF1</i>	chrX	+	42893623	42919341	Not Informative
ENSMODG000000014073	<i>ARHGEF6</i>	chrX	-	43067891	43178805	Nonescaper
ENSMODG000000014054	<i>RBMX</i>	chrX	-	43219836	43230673	Escaper
ENSMODG000000014039	<i>TM9SF2</i>	chrX	+	43270786	43358801	Nonescaper
ENSMODG000000014029	<i>ZIC3</i>	chrX	+	43802079	43808063	Nonescaper
ENSMODG000000014019	<i>FGF13</i>	chrX	-	44652064	45149009	Nonescaper
ENSMODG000000013991	<i>ATP11C</i>	chrX	-	45659544	45891911	Not Informative
ENSMODG000000013917	<i>SLITRK4</i>	chrX	-	48533099	48545053	Nonescaper
ENSMODG000000013912	<i>TCEAL1</i>	chrX	-	49549128	49550158	Not Informative
ENSMODG000000013898	<i>SLITRK2</i>	chrX	+	50766691	50775311	Nonescaper
chrX.608.1	<i>chrX.608.1</i>	chrX	n	51117105	51119215	Nonescaper
ENSMODG000000014277	<i>ENSMODG000000014277</i>	chrX	+	51171700	51203941	Not Informative
ENSMODG000000014279	<i>POU3F4</i>	chrX	+	52096631	52100989	Nonescaper
ENSMODG000000014302	<i>RPS6KA6</i>	chrX	-	52314841	52427218	Not Informative
ENSMODG000000014307	<i>HDX</i>	chrX	-	52566230	52676958	Not Informative
ENSMODG000000014330	<i>APOOL</i>	chrX	+	53317027	53400445	Not Informative
ENSMODG000000014346	<i>ZNF711</i>	chrX	+	53522386	53610052	Nonescaper
ENSMODG000000014360	<i>POF1B</i>	chrX	-	53601361	53656898	Not Informative
ENSMODG000000014364	<i>CHM</i>	chrX	-	53955733	54193522	Nonescaper
ENSMODG000000014370	<i>DACH2</i>	chrX	+	54265625	54673384	Not Informative
ENSMODG000000003863	<i>UPRT</i>	chrX	+	55452576	55490384	Nonescaper
ENSMODG000000003871	<i>ZDHHC15</i>	chrX	-	55492882	55579739	Nonescaper
ENSMODG000000003920	<i>ATRX</i>	chrX	-	55912084	56101813	Escaper
ENSMODG000000003944	<i>MAGT1</i>	chrX	-	56122848	56147341	Nonescaper
ENSMODG000000003953	<i>COX7B</i>	chrX	+	56148631	56155058	Nonescaper
ENSMODG000000004010	<i>ATP7A</i>	chrX	+	56160033	56272966	Nonescaper
ENSMODG000000004055	<i>PGK1</i>	chrX	+	56305610	56328952	Not Informative
ENSMODG000000004077	<i>TAF9</i>	chrX	-	56332142	56340257	Not Informative
ENSMODG000000004142	<i>FNDC3C1</i>	chrX	-	56402407	56481228	Nonescaper
ENSMODG000000004207	<i>CYSLTR1</i>	chrX	-	56515053	56547575	Not Informative
ENSMODG000000022866	<i>LPAR4</i>	chrX	+	56829243	56847269	Not Informative
ENSMODG000000004214	<i>P2RY10</i>	chrX	+	56979363	57023910	Not Informative

Ensembl Gene ID	Gene name	chr	strand	gstart	gend	Escaping_status
ENSMODG00000004233	<i>ITM2A</i>	chrX	-	57184909	57203973	Nonescaper
ENSMODG00000004255	<i>TBX22</i>	chrX	+	57626614	57639607	Nonescaper
ENSMODG00000004273	<i>CHMP1B</i>	chrX	-	57744584	57773789	Nonescaper
ENSMODG00000014584	<i>FAM46D</i>	chrX	+	57820193	57821372	Nonescaper
ENSMODG00000004308	<i>BRWD3</i>	chrX	-	58343184	58471501	Nonescaper
NSBP1	<i>NSBP1</i>	chrX	-	58681570	58691833	Not Informative
ENSMODG00000004322	<i>SH3BGRL</i>	chrX	+	58764887	58848157	Not Informative
chrX.714.1	<i>chrX.714.1</i>	chrX	+	59427555	59462766	Nonescaper
ENSMODG00000017423	<i>MORF4L1</i>	chrX	+	59755754	59758716	Not Informative
ENSMODG00000017473	<i>PCDH11X</i>	chrX	+	63167012	63218277	Nonescaper
ENSMODG00000017480	<i>ENSMODG00000017480</i>	chrX	+	63717435	63738780	Not Informative
ENSMODG00000025188	<i>CSNK1A1-like</i>	chrX	-	64141219	64143487	Nonescaper
ENSMODG00000017486	<i>SET-transposed</i>	chrX	-	64275568	64278261	Nonescaper
ENSMODG00000008987	<i>TNMD</i>	chrX	-	65030299	65048900	Not Informative
ENSMODG00000009008	<i>PCDH19</i>	chrX	+	65153867	65270005	Nonescaper
ENSMODG00000004897	<i>AGTR2</i>	chrX	-	66906145	66912497	Not Informative
ENSMODG00000004940	<i>PLS3</i>	chrX	-	66980696	67095502	Nonescaper
ENSMODG00000005026	<i>LRCH2</i>	chrX	+	67382627	67449828	Not Informative
ENSMODG00000005042	<i>HTR2C</i>	chrX	-	67640079	67744491	Not Informative
ENSMODG00000005098	<i>AMOT</i>	chrX	+	68740638	68802939	Nonescaper
ENSMODG00000005109	<i>LHFPL1</i>	chrX	+	68838127	68859478	Not Informative
ENSMODG00000005159	<i>ALG13</i>	chrX	-	69195025	69232561	Not Informative
ENSMODG00000005199	<i>DCX</i>	chrX	+	69460386	69508649	Nonescaper
ENSMODG00000005238	<i>CAPN6</i>	chrX	+	69514764	69539142	Nonescaper
ENSMODG00000005255	<i>PAK3</i>	chrX	-	69542496	69624226	Nonescaper
ENSMODG00000005275	<i>ENSMODG00000005275</i>	chrX	-	69640278	69712553	Nonescaper
ENSMODG00000005289	<i>ENSMODG00000005289</i>	chrX	+	69659689	69677732	Not Informative
ENSMODG00000005320	<i>ALAS2</i>	chrX	+	69731211	69744420	Escaper
ENSMODG00000005341	<i>APEX2</i>	chrX	-	69747514	69758210	Nonescaper
ENSMODG00000004615	<i>OGT</i>	chrX	-	69873688	69902300	Not Informative
ENSMODG00000004570	<i>TAF1</i>	chrX	-	69905740	69944627	Escaper
ENSMODG00000025151	<i>RHOG</i>	chrX	-	69948305	69957174	Not Informative
ENSMODG00000004464	<i>ITGB1BP2</i>	chrX	-	69958455	69962444	Not Informative
ENSMODG00000004445	<i>NONO</i>	chrX	-	69963226	69976186	Escaper
ENSMODG00000004419	<i>ZMYM3</i>	chrX	+	69982985	69997582	Nonescaper
ENSMODG00000004381	<i>NLGN3</i>	chrX	-	70031115	70050788	Nonescaper
ENSMODG00000005121	<i>MED12</i>	chrX	-	70052171	70069519	Not Informative
ENSMODG00000004992	<i>FOXO4</i>	chrX	-	70078765	70086819	Not Informative
ENSMODG00000005079	<i>SNX12</i>	chrX	+	70106198	70115087	Nonescaper
ENSMODG00000004962	<i>DLG3</i>	chrX	-	70430125	70530284	Nonescaper
ENSMODG00000004895	<i>GDPD2</i>	chrX	-	70544642	70551214	Nonescaper
ENSMODG00000004864	<i>KIF4A</i>	chrX	-	70561394	70634763	Not Informative
ENSMODG00000004798	<i>PDZD11</i>	chrX	+	70634833	70639014	Nonescaper*
ENSMODG00000004701	<i>IGBP1</i>	chrX	-	70712053	70725504	Nonescaper
ENSMODG00000004650	<i>EDA</i>	chrX	-	70779667	70943592	Nonescaper
ENSMODG00000010895	<i>EFNB1</i>	chrX	+	71071569	71082529	Not Informative
KCTD12B	<i>KCTD12B</i>	chrX	-	71561236	71565231	Nonescaper
ENSMODG00000010883	<i>KLF8</i>	chrX	-	71570621	71604171	Nonescaper
ENSMODG00000010855	<i>ARAF</i>	chrX	+	71693036	71697525	Not Informative
ENSMODG00000010825	<i>SYN1</i>	chrX	-	71699449	71710387	Not Informative

Ensembl Gene ID	Gene name	chr	strand	gstart	gend	Escaping_status
ENSMODG00000010849	<i>TIMP1</i>	chrX	+	71705296	71707731	Not Informative
ENSMODG00000027131	<i>CFP</i>	chrX	-	71717297	71720043	Not Informative
ENSMODG00000010789	<i>ELK1</i>	chrX	-	71724851	71726754	Not Informative
UXT	<i>UXT</i>	chrX	-	71728089	71729376	Not Informative
ENSMODG00000010767	<i>CDK16</i>	chrX	+	71742557	71753545	Not Informative
ENSMODG00000010726	<i>USP11</i>	chrX	+	71753977	71764452	Not Informative
ENSMODG00000010677	<i>UBA1</i>	chrX	-	71766123	71774751	Not Informative
ENSMODG00000010640	<i>RBM10</i>	chrX	+	71776415	71806020	Not Informative
ENSMODG00000010588	<i>CCDC115</i>	chrX	-	71807136	71808150	Not Informative
ENSMODG00000010577	<i>IMP4</i>	chrX	+	71808395	71811288	Not Informative
ENSMODG00000010558	<i>MON1B</i>	chrX	+	71817832	71823421	Not Informative
SYCE1	<i>SYCE1</i>	chrX	+	71825062	71836847	Not Informative
ENSMODG00000010555	<i>CXXC1</i>	chrX	+	71837077	71843144	Not Informative
ENSMODG00000010534	<i>MBD1</i>	chrX	+	71843370	71850996	Not Informative
ENSMODG00000010429	<i>ABT1</i>	chrX	-	71851286	71852243	Not Informative
ENSMODG00000010422	<i>GRM6</i>	chrX	+	71856258	71860552	Not Informative
ENSMODG00000010303	<i>WDR13</i>	chrX	+	71875707	71885659	Not Informative
ENSMODG00000010324	<i>SUV39H1</i>	chrX	-	71886167	71889318	Not Informative
ENSMODG00000010292	<i>SLC38A5</i>	chrX	-	71931164	71935596	Not Informative
ENSMODG00000010259	<i>TBC1D25</i>	chrX	-	71941086	71950120	Not Informative
ENSMODG00000010248	<i>EBP</i>	chrX	-	71949872	71952337	Not Informative
ENSMODG00000010236	<i>PORCN</i>	chrX	+	71955069	71961515	Not Informative
ENSMODG00000010166	<i>HDAC6</i>	chrX	-	71961896	71977271	Not Informative
ENSMODG00000010099	<i>GATA1</i>	chrX	-	72059364	72064829	Not Informative
ENSMODG00000010069	<i>TIMM17B</i>	chrX	-	72080366	72082912	Not Informative
ENSMODG00000010063	<i>PQBP1</i>	chrX	+	72083313	72086011	Not Informative
ENSMODG00000010048	<i>SLC35A2</i>	chrX	-	72086108	72089875	Not Informative
ENSMODG00000010037	<i>PIM2</i>	chrX	-	72089936	72092366	Not Informative
ENSMODG00000010018	<i>GRIPAP1</i>	chrX	-	72110130	72118526	Not Informative
ENSMODG00000009925	<i>TFE3</i>	chrX	-	72118705	72125889	Not Informative
ENSMODG00000009910	<i>CCDC120</i>	chrX	+	72132343	72137792	Not Informative
ENSMODG00000009899	<i>SYP</i>	chrX	-	72153257	72155775	Not Informative
ENSMODG00000009860	<i>CCDC22</i>	chrX	+	72187666	72193299	Not Informative
ENSMODG00000009772	<i>GPR173</i>	chrX	+	72239938	72243654	Not Informative
ENSMODG00000009765	<i>KDM5C</i>	chrX	-	72253173	72268696	Not Informative
ENSMODG00000010916	<i>ERCC6L</i>	chrX	+	72436880	72446735	Nonescaper
ENSMODG00000010913	<i>PIN4</i>	chrX	-	72453175	72456668	Not Informative
chrX.911.1	<i>chrX.911.1</i>	chrX	+	72638483	72643370	Nonescaper
ENSMODG00000011070	<i>RPS4X</i>	chrX	-	72644888	72647366	Not Informative
ENSMODG00000011092	<i>PHKA1</i>	chrX	-	72729727	72787880	Not Informative
ENSMODG00000011116	<i>SHROOM4</i>	chrX	+	72848569	72976616	Nonescaper
ENSMODG00000011246	<i>CCNB3</i>	chrX	-	73171053	73190708	Not Informative
ENSMODG00000011303	<i>CLCN5</i>	chrX	-	73284843	73385824	Not Informative
ENSMODG00000011337	<i>RRAGB</i>	chrX	+	73467103	73493673	Not Informative
ENSMODG00000011382	<i>NDNL2</i>	chrX	+	73573557	73610146	Not Informative
ENSMODG00000011371	<i>PFKFB1</i>	chrX	-	73610661	73625089	Not Informative
ENSMODG00000025185	<i>DDB2-transposed</i>	chrX	-	74644456	74649538	Nonescaper
ENSMODG00000002444	<i>DIAPH2</i>	chrX	-	74830593	75599849	Nonescaper
ENSMODG00000011266	<i>KLHL13</i>	chrX	-	77834108	78016931	Not Informative
ENSMODG00000011281	<i>WDR44</i>	chrX	+	78122919	78207171	Nonescaper

Ensembl Gene ID	Gene name	chr	strand	gstart	gend	Escaping_status
ENSMODG00000011503	<i>DOCK11</i>	chrX	+	78232792	78476860	Not Informative
ENSMODG00000011525	<i>IL13RA1</i>	chrX	+	78513975	78555864	Nonescaper
ENSMODG00000023733	<i>MCART6</i>	chrX	+	78582687	78595452	Nonescaper
ENSMODG00000011531	<i>RAB9B</i>	chrX	+	78641193	78658331	Not Informative
ENSMODG00000011590	<i>GLA</i>	chrX	+	78782782	78790554	Not Informative
ENSMODG00000025578	<i>RPL36A</i>	chrX	-	78791109	78793327	Not Informative
ENSMODG00000011651	<i>BTB</i>	chrX	+	78797997	78825788	Not Informative
ENSMODG00000011661	<i>TIMM8A</i>	chrX	+	78829652	78832559	Nonescaper
ENSMODG00000011663	<i>NIPA2</i>	chrX	-	78832676	78845754	Not Informative
ENSMODG00000011746	<i>CENPI</i>	chrX	-	78946074	79006372	Escaper
ENSMODG00000011752	<i>TMEM35</i>	chrX	-	79017687	79024095	Not Informative
ENSMODG00000011785	<i>CSTF2</i>	chrX	-	79146215	79179860	Not Informative
ENSMODG00000011808	<i>SYTL4</i>	chrX	+	79209257	79259949	Nonescaper
ENSMODG00000011837	<i>SRPX2</i>	chrX	-	79260539	79298791	Not Informative

*: nonescaper genes with less than 10% paternal leakage.

***: X-linked transcripts in the RNA-seq data that are not annotated in Ensembl.

Data S1D. Chromosome-wide imprinted XCI status profile in opossum EEM.

Ensembl Gene ID	Gene name	Chr	Strand	Gene start	Gene end	Escaping status
ENSMODG00000011942	<i>ABCB7</i>	chrUn	+	5921593	6060756	Nonescaper
ENSMODG00000011962	<i>SLC16A2</i>	chrUn	-	6391064	6485186	Nonescaper
ENSMODG00000019212	<i>MTMR8</i>	chrUn	-	27714896	27752929	Nonescaper
ENSMODG00000020517	<i>SLC9A6</i>	chrUn	-	45980685	46014536	Nonescaper
ENSMODG0000002926	<i>EMD</i>	chrUn	-	75520887	75525671	Nonescaper
ENSMODG00000008710	<i>FLNA</i>	chrX	+	3105209	3140863	Escaper
ENSMODG00000008731	<i>RPL10</i>	chrX	+	3165588	3167648	Escaper
ENSMODG00000008763	<i>DNASE1L1</i>	chrX	-	3189790	3196603	Unknown
ENSMODG00000008980	<i>GDI1</i>	chrX	+	3274568	3280669	Unknown
ENSMODG00000008851	<i>TAZ</i>	chrX	+	3214100	3223327	Nonescaper*
ENSMODG00000008869	<i>ATP6AP1</i>	chrX	+	3264100	3274025	Unknown
ENSMODG00000008997	<i>PLXNA3</i>	chrX	+	3315995	3340956	Escaper
ENSMODG00000009006	<i>UBL4A</i>	chrX	-	3358102	3361805	Unknown
ENSMODG00000009016	<i>SLC10A3</i>	chrX	-	3365540	3370837	Unknown
ENSMODG00000009154	<i>FAM3A</i>	chrX	-	3388349	3401287	Nonescaper*
ENSMODG00000009175	<i>G6PD</i>	chrX	-	3446455	3463577	Escaper
ENSMODG00000009181	<i>IKBKG</i>	chrX	+	3464197	3520274	Escaper
ENSMODG00000009243	<i>SEPHS2</i>	chrX	-	3520340	3539155	Nonescaper
ENSMODG00000009267	<i>DKC1</i>	chrX	+	3923271	3932415	Escaper
ENSMODG00000025404	<i>MPP1</i>	chrX	-	3932474	3978594	Nonescaper
ENSMODG00000006103	<i>CSNK1A1</i>	chrX	+	4313729	4315983	Unknown
ENSMODG00000006108	<i>FAAH2</i>	chrX	-	4463035	4486967	Unknown
ENSMODG00000006132	<i>SMAD4-transposed</i>	chrX	-	4504888	4507581	Nonescaper
ENSMODG00000025401	<i>TMLHE</i>	chrX	-	4510595	4559064	Nonescaper
ENSMODG00000006206	<i>VAMP7</i>	chrX	+	4899550	4941631	Nonescaper
ENSMODG00000006229	<i>F8A1</i>	chrX	+	4991430	4993788	Nonescaper
ENSMODG00000004295	<i>CLIC2</i>	chrX	+	5035766	5071736	Unknown
ENSMODG00000011470	<i>ZNF673</i>	chrX	-	5269339	5289567	Nonescaper
ENSMODG00000025395	<i>ACSL4</i>	chrX	-	5422206	5486387	Nonescaper
ENSMODG00000011480	<i>TMEM164</i>	chrX	+	5728539	5851914	Nonescaper
ENSMODG00000011492	<i>AMMECR1</i>	chrX	-	5863886	5989831	Nonescaper
ENSMODG00000011584	<i>NXT1</i>	chrX	-	6178871	6186198	Nonescaper
ENSMODG00000011603	<i>COL4A5</i>	chrX	-	6696574	6913864	Nonescaper
ENSMODG00000011621	<i>ATG4A</i>	chrX	-	7056565	7119137	Unknown
ENSMODG00000011644	<i>PSMD10</i>	chrX	+	7119400	7140960	Unknown
ENSMODG00000011680	<i>MID2</i>	chrX	-	7237343	7336990	Nonescaper
ENSMODG00000011692	<i>STARD8</i>	chrX	-	7386414	7442921	Nonescaper
ENSMODG00000011695	<i>YIPF6</i>	chrX	-	7573237	7594665	Escaper
ENSMODG00000025365	<i>OPHN1</i>	chrX	+	7626340	7856371	Nonescaper
ENSMODG00000012440	<i>EDA2R</i>	chrX	+	9175730	9214167	Nonescaper
ENSMODG00000012456	<i>HEPH</i>	chrX	-	9819311	9875150	Nonescaper
HSF3	<i>HSF3</i>	chrX	+	9948318	10014085	Nonescaper
ENSMODG00000012494	<i>MSN</i>	chrX	-	10200865	10279691	Nonescaper
ENSMODG00000008192	<i>PNCK</i>	chrX	-	11418427	11426229	Nonescaper
ENSMODG00000008300	<i>BCAP31</i>	chrX	-	11484543	11515049	Nonescaper*
ENSMODG00000008330	<i>ABCD1</i>	chrX	+	11515312	11537987	Nonescaper
ENSMODG00000008407	<i>PLXNB3</i>	chrX	+	11545260	11597567	Nonescaper
ENSMODG00000008568	<i>SRPK3</i>	chrX	-	11602014	11629038	Nonescaper

Ensembl Gene ID	Gene name	Chr	Strand	Gene start	Gene end	Escaping status
ENSMODG00000008581	<i>SSR4</i>	chrX	+	11629180	11633496	Unknown
ENSMODG00000008677	<i>L1CAM</i>	chrX	-	11702791	11736901	Nonescaper
ENSMODG00000002278	<i>NUP62CL</i>	chrX	+	12110928	12167986	Escaper
ENSMODG00000002312	<i>RBM41</i>	chrX	+	12253749	12293248	Nonescaper
ENSMODG000000022844	<i>MORC4</i>	chrX	+	12294952	12340139	Unknown
ENSMODG00000002345	<i>TBC1D8B</i>	chrX	-	12403104	12514782	Nonescaper
ENSMODG00000002362	<i>RNF128</i>	chrX	-	12548808	12671448	Nonescaper
ENSMODG000000021343	<i>NXT2</i>	chrX	+	12835738	12841514	Nonescaper
ENSMODG00000005162	<i>LOC100028767</i>	chrX	-	13186350	13195964	Nonescaper
ENSMODG00000005195	<i>LAS1L</i>	chrX	+	13387679	13401640	Nonescaper
ENSMODG000000011534	<i>NUDT16</i>	chrX	-	14399019	14411429	Unknown
ENSMODG000000011547	<i>NAA10</i>	chrX	-	14414830	14421724	Unknown
ENSMODG000000011560	<i>RENBP</i>	chrX	-	14422066	14429057	Unknown
ENSMODG000000011597	<i>HCFC1</i>	chrX	-	14438216	14468166	Escaper
ENSMODG000000011627	<i>IRAK1</i>	chrX	-	14504588	14528117	Escaper
ENSMODG000000011643	<i>MECP2</i>	chrX	-	14534875	14616746	Escaper
ENSMODG000000011673	<i>TKTL1</i>	chrX	+	14723217	14749182	Nonescaper
ENSMODG000000011609	<i>LOC100029725</i>	chrX	+	14759963	14798905	Nonescaper
ENSMODG000000014984	<i>THOC2</i>	chrX	-	17318768	17411900	Unknown
ENSMODG000000014970	<i>BIRC4</i>	chrX	+	17494448	17531404	Unknown
ENSMODG000000014957	<i>STAG2</i>	chrX	+	17572521	17691053	Nonescaper
ENSMODG000000014906	<i>ODZ1</i>	chrX	-	17813548	18132320	Nonescaper
ENSMODG00000002996	<i>CNOT7L</i>	chrX	-	21757856	21758723	Nonescaper
ENSMODG00000006985	<i>ashwin-like</i>	chrX	-	23021517	23029672	Nonescaper
ENSMODG000000025324	<i>LUC7L2-transposed</i>	chrX	-	23139014	23145594	Nonescaper
novelX_02**	<i>ANKRD54-like</i>	chrX	-	23225073	23234191	Nonescaper
novelX_03**	<i>novelX_03_L2_Mars</i>	chrX	n	24139891	24142600	Nonescaper
novelX_04**	<i>novelX_04_L2_Mars</i>	chrX	-	24214434	24237610	Nonescaper
ENSMODG00000007203	<i>ASB12</i>	chrX	+	24970366	24974439	Nonescaper
ENSMODG00000007211	<i>FAM123B</i>	chrX	+	24977793	25005892	Nonescaper
ENSMODG000000010181	<i>PGRMC1</i>	chrX	+	27516322	27519164	Nonescaper
ENSMODG000000010185	<i>AKAP17B</i>	chrX	-	27809292	27858556	Nonescaper
ENSMODG000000010189	<i>SLC25A43</i>	chrX	+	27904646	27953287	Unknown
ENSMODG000000010197	<i>CXorf56</i>	chrX	-	28005543	28023431	Unknown
ENSMODG000000010209	<i>UBE2A</i>	chrX	+	28032064	28042537	Unknown
ENSMODG000000010215	<i>NKRF</i>	chrX	-	28045848	28055541	Unknown
ENSMODG000000010221	<i>SEPT6</i>	chrX	-	28084648	28143099	Nonescaper
ENSMODG000000010232	<i>UPF3B</i>	chrX	-	28214148	28237827	Nonescaper
ENSMODG000000010245	<i>NDUFA1</i>	chrX	+	28244496	28251455	Nonescaper
ENSMODG000000025434	<i>ZBTB33</i>	chrX	+	28367022	28376610	Nonescaper
ENSMODG000000010311	<i>LAMP2</i>	chrX	-	28536774	28568064	Unknown
ENSMODG000000010345	<i>CUL4B</i>	chrX	-	28613699	28657536	Nonescaper
ENSMODG000000010354	<i>MCTS1</i>	chrX	+	28718151	28726695	Unknown
ENSMODG000000010359	<i>C1GALT1C1</i>	chrX	-	28734909	28742206	Unknown
ENSMODG000000013187	<i>SMARCA1</i>	chrX	-	30863908	31013815	Nonescaper
ENSMODG000000013199	<i>OCRL</i>	chrX	+	31033015	31090356	Nonescaper
chrX.387.1	<i>MILL-like</i>	chrX	+	31172576	31183291	Nonescaper
ENSMODG000000013228	<i>ZDHHC9</i>	chrX	-	31282199	31320847	Unknown
ENSMODG000000013238	<i>UTP14A</i>	chrX	+	31347869	31372394	Unknown
ENSMODG000000013250	<i>BCORL1</i>	chrX	+	31464342	31506921	Nonescaper

Ensembl Gene ID	Gene name	Chr	Strand	Gene start	Gene end	Escaping status
ENSMODG00000013255	<i>ELF4</i>	chrX	-	31512918	31571682	Nonescaper
ENSMODG00000013265	<i>AIFM1</i>	chrX	-	31601731	31628338	Unknown
ENSMODG00000013269	<i>RAB33A</i>	chrX	+	31659531	31673179	Nonescaper
ENSMODG00000015416	<i>ENOX2</i>	chrX	-	31733734	31919255	Unknown
ENSMODG00000015323	<i>MST4</i>	chrX	+	32790747	32852655	Unknown
ENSMODG00000015320	<i>FRMD7</i>	chrX	-	32852775	32945337	Escaper
ENSMODG00000015308	<i>MBNL3</i>	chrX	-	33084511	33309139	Unknown
ENSMODG00000015304	<i>RAP2C</i>	chrX	-	32969339	32990143	Unknown
ENSMODG00000015297	<i>HS6ST2</i>	chrX	-	33496645	33780568	Nonescaper
ENSMODG00000015295	<i>GPC4</i>	chrX	-	34087454	34224779	Nonescaper
ENSMODG00000015268	<i>GPC3</i>	chrX	-	34349076	35120256	Nonescaper
ENSMODG00000025298	<i>CCDC160</i>	chrX	+	35245190	35256272	Unknown
ENSMODG00000015259	<i>PHF6</i>	chrX	+	35482485	35517948	Escaper
ENSMODG00000015247	<i>HPRT1</i>	chrX	+	35567661	35597018	Nonescaper
ENSMODG00000015195	<i>FAM122B</i>	chrX	-	35981850	36030233	Escaper
ENSMODG00000015185	<i>FAM122A</i>	chrX	+	36032088	36053718	Escaper
ENSMODG00000015178	<i>MOSPD1</i>	chrX	-	36105099	36139695	Nonescaper
ENSMODG00000025280	<i>LOC10024466</i>	chrX	-	36442958	36447610	Nonescaper
ENSMODG00000005550	<i>FMR1</i>	chrX	+	37379256	37440308	Nonescaper
ENSMODG00000005597	<i>IDS</i>	chrX	-	38768514	38798005	Nonescaper
ENSMODG00000005605	<i>TMEM185A</i>	chrX	+	38981953	39008626	Unknown
ENSMODG00000005620	<i>CXorf40A-like</i>	chrX	-	39125750	39130837	Unknown
ENSMODG00000005627	<i>MAMLD1</i>	chrX	+	39641813	39775623	Unknown
ENSMODG00000005671	<i>MTM1</i>	chrX	+	39846675	39945407	Nonescaper
ENSMODG00000005714	<i>MTMR1</i>	chrX	+	39955149	40020995	Escaper
CD99L2	<i>CD99L2</i>	chrX	-	40027582	40182817	Escaper
ENSMODG00000005735	<i>HMGB3</i>	chrX	+	40252510	40265270	Escaper
ENSMODG00000005753	<i>VMA21</i>	chrX	+	40638153	40648480	Unknown
ENSMODG00000005932	<i>CETN1</i>	chrX	-	42015516	42022547	Unknown
ENSMODG00000005941	<i>NSDHL</i>	chrX	+	42022637	42058192	Unknown
ENSMODG00000003985	<i>ZFP347L</i>	chrX	+	42203491	42231849	Unknown
ENSMODG00000006016	<i>CENPBD1</i>	chrX	-	42241010	42258334	Nonescaper
ENSMODG00000014087	<i>HTATSF1</i>	chrX	+	42893623	42919341	Unknown
ENSMODG00000014073	<i>ARHGEF6</i>	chrX	-	43067891	43178805	Nonescaper
ENSMODG00000014054	<i>RBMX</i>	chrX	-	43219836	43230673	Escaper
ENSMODG00000014039	<i>TM9SF2</i>	chrX	+	43270786	43358801	Nonescaper
ENSMODG00000014019	<i>FGF13</i>	chrX	-	44652064	45149009	Nonescaper
ENSMODG00000013991	<i>ATP11C</i>	chrX	-	45659544	45891911	Unknown
ENSMODG00000013917	<i>SLITRK4</i>	chrX	-	48533099	48545053	Nonescaper
ENSMODG00000013912	<i>TCEAL1</i>	chrX	-	49549128	49550158	Unknown
ENSMODG00000014302	<i>RPS6KA6</i>	chrX	-	52314841	52427267	Unknown
ENSMODG00000014307	<i>HDX</i>	chrX	-	52566230	52677250	Unknown
ENSMODG00000014330	<i>APOOL</i>	chrX	+	53317027	53400445	Unknown
ENSMODG00000014346	<i>ZNF711</i>	chrX	+	53522386	53610052	Unknown
ENSMODG00000014360	<i>POF1B</i>	chrX	-	53601361	53656898	Nonescaper
ENSMODG00000014364	<i>CHM</i>	chrX	-	53955733	54193522	Nonescaper
ENSMODG00000014370	<i>DACH2</i>	chrX	+	54265625	54673384	Unknown
ENSMODG00000003863	<i>UPRT</i>	chrX	+	55452576	55490384	Nonescaper
ENSMODG00000003871	<i>ZDHHC15</i>	chrX	-	55492882	55579739	Nonescaper
ENSMODG00000003920	<i>ATRX</i>	chrX	-	55912084	56101813	Escaper

Ensembl Gene ID	Gene name	Chr	Strand	Gene start	Gene end	Escaping status
ENSMODG00000003944	<i>MAGT1</i>	chrX	-	56122848	56147341	Nonescaper
ENSMODG00000003953	<i>COX7B</i>	chrX	+	56148631	56155058	Nonescaper
ENSMODG00000004010	<i>ATP7A</i>	chrX	+	56160033	56272966	Nonescaper
ENSMODG00000004055	<i>PGK1</i>	chrX	+	56305610	56328952	Unknown
ENSMODG00000004077	<i>TAF9</i>	chrX	-	56332142	56340257	Unknown
ENSMODG00000004233	<i>ITM2A</i>	chrX	-	57184909	57204580	Nonescaper
ENSMODG00000004273	<i>CHMP1B</i>	chrX	-	57744584	57773789	Nonescaper
ENSMODG00000004322	<i>SH3BGRL</i>	chrX	+	58764647	58848157	Unknown
ENSMODG000000017423	<i>MORF4L1</i>	chrX	+	59755754	59758716	Unknown
ENSMODG000000025188	<i>CSNK1A1-like</i>	chrX	-	64141219	64143854	Nonescaper
ENSMODG000000017486	<i>SET-transposed</i>	chrX	-	64275568	64278261	Nonescaper
ENSMODG00000004940	<i>PLS3</i>	chrX	-	66980696	67095738	Nonescaper
ENSMODG00000005026	<i>LRCH2</i>	chrX	+	67382627	67449828	Unknown
ENSMODG00000005098	<i>AMOT</i>	chrX	+	68740599	68802939	Nonescaper
ENSMODG00000005275	<i>ENSMODG00000005275</i>	chrX	-	69640278	69712553	Nonescaper
ENSMODG00000005289	<i>ENSMODG00000005289</i>	chrX	+	69659689	69677732	Unknown
ENSMODG00000005320	<i>ALAS2</i>	chrX	+	69731211	69744420	Escaper
ENSMODG00000005341	<i>APEX2</i>	chrX	-	69747514	69758210	Nonescaper
ENSMODG00000004615	<i>OGT</i>	chrX	-	69873688	69902300	Unknown
ENSMODG00000004570	<i>TAF1</i>	chrX	-	69905740	69944627	Escaper
ENSMODG000000025151	<i>RHOG</i>	chrX	-	69948305	69957174	Unknown
ENSMODG00000004445	<i>NONO</i>	chrX	-	69963226	69976186	Escaper
ENSMODG00000004419	<i>ZMYM3</i>	chrX	+	69982985	69997582	Nonescaper
ENSMODG00000004381	<i>NLGN3</i>	chrX	-	70031115	70050788	Nonescaper
ENSMODG00000005121	<i>MED12</i>	chrX	-	70052171	70069519	Unknown
ENSMODG00000004992	<i>FOXO4</i>	chrX	-	70078765	70086819	Unknown
ENSMODG00000005079	<i>SNX12</i>	chrX	+	70105931	70115087	Nonescaper
ENSMODG00000004962	<i>DLG3</i>	chrX	-	70430125	70539560	Nonescaper
ENSMODG00000004864	<i>KIF4A</i>	chrX	-	70561394	70634763	Unknown
ENSMODG00000004798	<i>PDZD11</i>	chrX	+	70634833	70639014	Nonescaper
ENSMODG00000004701	<i>IGBP1</i>	chrX	-	70712053	70725950	Nonescaper
ENSMODG000000010895	<i>EFNB1</i>	chrX	+	71071569	71082529	Unknown
KCTD12B	<i>KCTD12B</i>	chrX	-	71561236	71565231	Nonescaper
ENSMODG00000009925	<i>TFE3</i>	chrX	-	72118705	72125889	Unknown
ENSMODG000000010883	<i>KLF8</i>	chrX	-	71570621	71604721	Nonescaper
ENSMODG000000010558	<i>MON1B</i>	chrX	+	71811792	71823421	Unknown
ENSMODG000000010855	<i>ARAF</i>	chrX	+	71693036	71697525	Unknown
ENSMODG000000010849	<i>TIMP1</i>	chrX	+	71705296	71707731	Unknown
ENSMODG000000010789	<i>ELK1</i>	chrX	-	71724851	71726754	Unknown
UXT	<i>UXT</i>	chrX	-	71728089	71729376	Unknown
ENSMODG000000010767	<i>CDK16</i>	chrX	+	71742557	71753545	Unknown
ENSMODG000000010726	<i>USP11</i>	chrX	+	71753866	71764452	Unknown
ENSMODG000000010677	<i>UBA1</i>	chrX	-	71766123	71774751	Unknown
ENSMODG000000010640	<i>RBM10</i>	chrX	+	71775865	71806020	Unknown
ENSMODG000000010588	<i>CCDC115</i>	chrX	-	71807136	71808150	Unknown
ENSMODG000000010577	<i>IMP4</i>	chrX	+	71808395	71811288	Unknown
SYCE1	<i>SYCE1</i>	chrX	+	71825062	71836847	Unknown
ENSMODG000000010555	<i>CXXC1</i>	chrX	+	71837077	71843144	Unknown
ENSMODG000000010534	<i>MBD1</i>	chrX	+	71843370	71850996	Unknown
ENSMODG000000010429	<i>ABT1</i>	chrX	-	71851286	71852243	Unknown

Ensembl Gene ID	Gene name	Chr	Strand	Gene start	Gene end	Escaping status
ENSMODG00000010422	<i>GRM6</i>	chrX	+	71856258	71863176	Unknown
ENSMODG00000010303	<i>WDR13</i>	chrX	+	71882298	71885659	Unknown
ENSMODG00000010324	<i>SUV39H1</i>	chrX	-	71886167	71889318	Unknown
ENSMODG00000010259	<i>TBC1D25</i>	chrX	-	71941086	71950120	Unknown
ENSMODG00000010248	<i>EBP</i>	chrX	-	71949872	71952337	Unknown
ENSMODG00000010236	<i>PORCN</i>	chrX	+	71955069	71961515	Unknown
ENSMODG00000010166	<i>HDAC6</i>	chrX	-	71961896	71977271	Unknown
ENSMODG00000010099	<i>GATA1</i>	chrX	-	72059364	72064829	Unknown
ENSMODG00000010069	<i>TIMM17B</i>	chrX	-	72080366	72082912	Unknown
ENSMODG00000010063	<i>PQBP1</i>	chrX	+	72083313	72086011	Unknown
ENSMODG00000010048	<i>SLC35A2</i>	chrX	-	72086108	72089875	Unknown
ENSMODG00000010037	<i>PIM2</i>	chrX	-	72089936	72092366	Unknown
ENSMODG00000010018	<i>GRIPAP1</i>	chrX	-	72110130	72118526	Unknown
ENSMODG00000009910	<i>CCDC120</i>	chrX	+	72132343	72137792	Unknown
ENSMODG00000009899	<i>SYP</i>	chrX	-	72153257	72155775	Unknown
ENSMODG00000009860	<i>CCDC22</i>	chrX	+	72187666	72193299	Unknown
ENSMODG00000009772	<i>GPR173</i>	chrX	+	72239267	72243654	Unknown
ENSMODG00000009765	<i>KDM5C</i>	chrX	-	72253173	72268696	Unknown
ENSMODG00000010916	<i>ERCC6L</i>	chrX	+	72436880	72446735	Nonescaper
ENSMODG00000010913	<i>PIN4</i>	chrX	-	72453175	72456668	Unknown
chrX.911.1	<i>chrX.911.1</i>	chrX	+	72638483	72643370	Nonescaper
ENSMODG00000011070	<i>RPS4X</i>	chrX	-	72644888	72647366	Unknown
ENSMODG00000011092	<i>PHKA1</i>	chrX	-	72729727	72787880	Unknown
ENSMODG00000011116	<i>SHROOM4</i>	chrX	+	72848569	72976616	Nonescaper
ENSMODG00000011246	<i>CCNB3</i>	chrX	-	73171053	73185831	Unknown
ENSMODG00000011303	<i>CLCN5</i>	chrX	-	73284843	73386938	Unknown
ENSMODG00000011337	<i>RRAGB</i>	chrX	+	73469442	73493673	Unknown
ENSMODG00000011382	<i>NDNL2</i>	chrX	+	73573557	73610146	Unknown
ENSMODG00000025185	<i>DDB2-transposed</i>	chrX	-	74644456	74649538	Nonescaper
ENSMODG00000002444	<i>DIAPH2</i>	chrX	-	74830593	75599849	Nonescaper
ENSMODG00000011266	<i>KLHL13</i>	chrX	-	77834108	78016931	Unknown
ENSMODG00000011281	<i>WDR44</i>	chrX	+	78122919	78207171	Nonescaper
ENSMODG00000011503	<i>DOCK11</i>	chrX	+	78232792	78476860	Unknown
ENSMODG00000011525	<i>IL13RA1</i>	chrX	+	78513975	78555864	Nonescaper
ENSMODG00000023733	<i>MCART6</i>	chrX	+	78582687	78595452	Nonescaper
ENSMODG00000011590	<i>GLA</i>	chrX	+	78782782	78790554	Unknown
ENSMODG00000025578	<i>RPL36A</i>	chrX	-	78791109	78793327	Unknown
ENSMODG00000011661	<i>TIMM8A</i>	chrX	+	78829652	78832559	Nonescaper
ENSMODG00000011663	<i>NIPA2</i>	chrX	-	78832676	78845754	Unknown
ENSMODG00000011746	<i>CENPI</i>	chrX	-	78946074	79006372	Escaper
ENSMODG00000011752	<i>TMEM35</i>	chrX	-	79017687	79024095	Unknown
ENSMODG00000011785	<i>CSTF2</i>	chrX	-	79146215	79179860	Unknown
ENSMODG00000011808	<i>SYTL4</i>	chrX	+	79209257	79259949	Nonescaper
ENSMODG00000011837	<i>SRPX2</i>	chrX	-	79260539	79298791	Unknown

*: Nonescaper genes with less than 10% paternal leakage.

***: X-linked transcripts in the RNA-seq data that are not annotated in Ensembl database.