

Identification of Three Novel Mutations in *FRMD7* gene for X-linked Idiopathic Congenital Nystagmus

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Table S1. Capture Next Generation Sequencing of *CASK* gene

Chromosome	Position: Start	Position: Stop	Length	Number of tags	Sequencing Depth	Mutation
chrX	41379641	41379880	239	172	72.0	No
chrX	41383186	41383305	119	80	67.2	No
chrX	41390241	41390480	239	189	79.1	No
chrX	41393939	41394058	119	175	147.1	No
chrX	41394119	41394238	119	92	77.3	No
chrX	41401882	41402061	179	106	59.2	No
chrX	41412950	41413189	239	332	138.9	No
chrX	41414811	41414930	119	95	79.8	No
chrX	41416259	41416378	119	202	169.7	No
chrX	41418928	41419167	239	511	213.8	No
chrX	41420795	41420914	119	52	43.7	No
chrX	41428900	41429019	119	11	9.2	No
chrX	41437567	41437806	239	210	87.9	No
chrX	41446140	41446259	119	54	45.4	No
chrX	41448747	41448866	119	86	72.3	No
chrX	41469110	41469337	227	223	98.2	No
chrX	41481819	41481938	119	115	96.6	No
chrX	41483466	41483585	119	293	246.2	No
chrX	41485847	41485966	119	75	63.0	No
chrX	41495813	41495932	119	73	61.3	No
chrX	41519678	41519872	194	246	126.8	No
chrX	41524498	41524737	239	252	105.4	No
chrX	41530672	41530791	119	69	58.0	No
chrX	41554860	41556059	1199	1932	161.1	No
chrX	41586245	41587324	1079	1044	96.8	No
chrX	41598613	41598732	119	27	22.7	No
chrX	41604756	41604875	119	27	22.7	No
chrX	41646424	41646543	119	124	104.2	No
chrX	41712364	41712483	119	37	31.1	No
chrX	41782152	41782271	119	5	4.2	No

Table S2. Capture Next Generation Sequencing of exons on the X chromosome

Chr	Start	Stop	Length	Gene and NM_ID
chrX	200798	201037	239	PLCXD1:NR_028057
chrX	205348	205587	239	PLCXD1:NR_028057
chrX	207259	207489	230	PLCXD1:NR_028057
chrX	208124	208363	239	PLCXD1:NR_028057
chrX	209674	209913	239	PLCXD1:NR_028057
chrX	215703	216062	359	PLCXD1:NR_028057
chrX	221683	221922	239	GTPBP6:NM_012227
chrX	223983	224222	239	GTPBP6:NM_012227
chrX	224353	224592	239	GTPBP6:NM_012227
chrX	228070	228309	239	GTPBP6:NM_012227
chrX	229392	229631	239	GTPBP6:NM_012227
chrX	230792	230911	119	GTPBP6:NM_012227
chrX	295057	295296	239	PPP2R3B:NM_013239
chrX	299350	299469	119	PPP2R3B:NM_013239
chrX	299572	299691	119	PPP2R3B:NM_013239
chrX	301474	301707	233	PPP2R3B:NM_013239
chrX	302027	302146	119	PPP2R3B:NM_013239
chrX	302582	302701	119	PPP2R3B:NM_013239
chrX	306209	306448	239	PPP2R3B:NM_013239
chrX	306892	307011	119	PPP2R3B:NM_013239
chrX	307413	307532	119	PPP2R3B:NM_013239
chrX	307960	308079	119	PPP2R3B:NM_013239
chrX	308317	308436	119	PPP2R3B:NM_013239
chrX	320520	320639	119	PPP2R3B:NM_013239
chrX	322113	322352	239	PPP2R3B:NM_013239
chrX	334261	334415	154	PPP2R3B:NM_013239
chrX	347084	347425	341	PPP2R3B:NM_013239
chrX	347485	347933	448	PPP2R3B:NM_013239
chrX	591591	591950	359	SHOX:NM_000451
chrX	595337	595567	230	SHOX:NM_000451
chrX	601525	601644	119	SHOX:NM_000451
chrX	601718	601837	119	SHOX:NM_000451
chrX	605043	605162	119	SHOX:NM_000451
chrX	1314832	1315073	241	CRLF2:NM_001012288
chrX	1317379	1317588	209	CRLF2:NM_001012288
chrX	1321219	1321458	239	CRLF2:NM_001012288
chrX	1325289	1325528	239	CRLF2:NM_001012288
chrX	1327630	1327844	214	CRLF2:NM_001012288
chrX	1331428	1331547	119	CRLF2:NM_001012288
chrX	1401575	1401694	119	CSF2RA:NM_001161531

chrX	1404625	1404861	236	CSF2RA:NM_001161531
chrX	1407354	1407593	239	CSF2RA:NM_001161531
chrX	1407597	1407836	239	CSF2RA:NM_001161531
chrX	1409228	1409435	207	CSF2RA:NM_001161531
chrX	1413168	1413407	239	CSF2RA:NM_001161531
chrX	1414275	1414394	119	CSF2RA:NM_001161531
chrX	1419332	1419571	239	CSF2RA:NM_001161531
chrX	1422804	1422923	119	CSF2RA:NM_001161531
chrX	1424320	1424439	119	CSF2RA:NM_001161531
chrX	1424455	1424690	235	CSF2RA:NM_001161531
chrX	1428269	1428496	227	CSF2RA:NM_001161529
chrX	1460631	1460750	119	IL3RA:NM_001267713
chrX	1464148	1464343	195	IL3RA:NM_001267713
chrX	1467261	1467472	211	IL3RA:NM_001267713
chrX	1470958	1471178	220	IL3RA:NM_001267713
chrX	1471187	1471426	239	IL3RA:NM_001267713
chrX	1475052	1475291	239	IL3RA:NM_001267713
chrX	1477707	1477826	119	IL3RA:NM_001267713
chrX	1484002	1484147	145	IL3RA:NM_001267713
chrX	1497545	1497664	119	IL3RA:NM_001267713
chrX	1499897	1500016	119	IL3RA:NM_001267713
chrX	1501261	1501380	119	IL3RA:NM_001267713
chrX	1505454	1505693	239	SLC25A6:NM_001636
chrX	1506122	1506361	239	SLC25A6:NM_001636
chrX	1508126	1508676	550	SLC25A6:NM_001636
chrX	1510787	1510906	119	SLC25A6:NM_001636
chrX	1522152	1522391	239	ASMTL:NM_001173474
chrX	1531566	1531805	239	ASMTL:NM_001173474
chrX	1536818	1537057	239	ASMTL:NM_001173474
chrX	1537821	1538060	239	ASMTL:NM_001173474
chrX	1540523	1540762	239	ASMTL:NM_001173474
chrX	1544379	1544618	239	ASMTL:NM_001173474
chrX	1546620	1547060	440	ASMTL:NM_001173474
chrX	1551156	1551275	119	ASMTL:NM_001173474
chrX	1553886	1554005	119	ASMTL:NM_001173474
chrX	1554559	1554678	119	ASMTL:NM_001173474
chrX	1557954	1558073	119	ASMTL:NM_001173474
chrX	1561025	1561264	239	ASMTL:NM_001173474
chrX	1571627	1571746	119	ASMTL:NM_001173474
chrX	1584312	1585511	1199	P2RY8:NM_178129
chrX	1712317	1713156	839	AKAP17A:NR_027383
chrX	1714231	1714470	239	AKAP17A:NR_027383
chrX	1718025	1718539	514	AKAP17A:NR_027383
chrX	1719540	1720499	959	AKAP17A:NR_027383
chrX	1734067	1734186	119	ASMT:NM_004043

chrX	1741999	1742238	239	ASMT:NM_004043
chrX	1743107	1743346	239	ASMT:NM_004043
chrX	1746571	1746690	119	ASMT:NM_004043
chrX	1748653	1748888	235	ASMT:NM_004043
chrX	1751993	1752232	239	ASMT:NM_004043
chrX	1755272	1755511	239	ASMT:NM_004043
chrX	1761682	1761921	239	ASMT:NM_004043
chrX	2139056	2139295	239	DHR SX:NM_145177
chrX	2161048	2161287	239	DHR SX:NM_145177
chrX	2184765	2185004	239	DHR SX:NM_145177
chrX	2209534	2209653	119	DHR SX:NM_145177
chrX	2238637	2238832	195	DHR SX:NM_145177
chrX	2326760	2326879	119	DHR SX:NM_145177
chrX	2343232	2343351	119	DHR SX:NM_145177
chrX	2406638	2408797	2159	DHR SX:NM_145177
chrX	2418294	2418605	311	DHR SX:NM_145177
chrX	2418852	2418971	119	DHR SX:NM_145177
chrX	2609375	2609494	119	CD99:NM_001122898
chrX	2609519	2609758	239	CD99:NM_001122898
chrX	2609791	2610030	239	CD99:NM_001122898
chrX	2632428	2632547	119	CD99:NM_001122898
chrX	2635610	2635729	119	CD99:NM_001122898
chrX	2637664	2637783	119	CD99:NM_001122898
chrX	2638371	2638490	119	CD99:NM_001122898
chrX	2640632	2640751	119	CD99:NM_001122898
chrX	2641320	2641439	119	CD99:NM_001122898
chrX	2644298	2644417	119	CD99:NM_001122898
chrX	2644423	2644542	119	CD99:NM_001122898
chrX	2645299	2645418	119	CD99:NM_001122898
chrX	2651342	2651461	119	CD99:NM_001122898
chrX	2656004	2656363	359	CD99:NM_001122898
chrX	2658773	2658892	119	CD99:NM_001122898
chrX	2670286	2670405	119	XG:NM_001141919
chrX	2688552	2688671	119	XG:NM_001141919
chrX	2692709	2692828	119	XG:NM_001141919
chrX	2700078	2700197	119	XG:NM_001141919
chrX	2707637	2707756	119	XG:NM_001141919
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chrX	2715316	2715435	119	XG:NM_001141919
chrX	2724704	2724823	119	XG:NM_001141919
chrX	2726201	2726320	119	XG:NM_001141919
chrX	2729109	2729228	119	XG:NM_001141919
chrX	2729315	2729635	320	XG:NM_001141919
chrX	2732368	2732487	119	XG:NM_001141919
chrX	2746940	2747059	119	GYG2:NM_001079855

chrX	2748049	2748168	119	GYG2:NM_001079855
chrX	2748173	2748292	119	GYG2:NM_001079855
chrX	2761205	2761444	239	GYG2:NM_001079855
chrX	2771988	2772227	239	GYG2:NM_001079855
chrX	2772995	2773219	224	GYG2:NM_001079855
chrX	2774482	2774721	239	GYG2:NM_001079855
chrX	2777875	2778114	239	GYG2:NM_001079855
chrX	2779543	2779782	239	GYG2:NM_001079855
chrX	2793843	2793962	119	GYG2:NM_001079855
chrX	2795183	2795542	359	GYG2:NM_001079855
chrX	2799054	2799293	239	GYG2:NM_001079855
chrX	2823021	2823140	119	ARSD:NM_001669
chrX	2825253	2825732	479	ARSD:NM_001669
chrX	2826713	2826942	229	ARSD:NM_001669
chrX	2827819	2828058	239	ARSD:NM_001669
chrX	2828647	2828886	239	ARSD:NM_001669
chrX	2832620	2832859	239	ARSD:NM_001669
chrX	2833545	2833771	226	ARSD:NM_001669
chrX	2835817	2836296	479	ARSD:NM_001669
chrX	2838583	2838822	239	ARSD:NM_001669
chrX	2839885	2840124	239	ARSD:NM_001669
chrX	2843612	2843851	239	ARSD:NM_001669
chrX	2847154	2847273	119	ARSD:NM_001669
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chrX	2854724	2854963	239	ARSE:NM_000047
chrX	2856097	2856336	239	ARSE:NM_000047
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chrX	2873398	2873637	239	ARSE:NM_000047
chrX	2876276	2876515	239	ARSE:NM_000047
chrX	2878384	2878503	119	ARSE:NM_000047
chrX	2924640	2924759	119	ARSH:NM_001011719
chrX	2928012	2928251	239	ARSH:NM_001011719
chrX	2931031	2931270	239	ARSH:NM_001011719
chrX	2932983	2933462	479	ARSH:NM_001011719
chrX	2936523	2936762	239	ARSH:NM_001011719
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chrX	2945315	2945554	239	ARSH:NM_001011719
chrX	2947229	2947468	239	ARSH:NM_001011719
chrX	2951003	2951482	479	ARSH:NM_001011719
chrX	2986087	2986206	119	ARSF:NM_001201538
chrX	2990022	2990261	239	ARSF:NM_001201538
chrX	2994587	2994769	182	ARSF:NM_001201538

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chrX	3002256	3002735	479	ARSF:NM_001201538
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chrX	3019075	3019314	239	ARSF:NM_001201538
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chrX	3030213	3030645	432	ARSF:NM_001201538
chrX	3189857	3189976	119	CXorf28:NR_038428
chrX	3190306	3190425	119	CXorf28:NR_038428
chrX	3202149	3202268	119	CXorf28:NR_038428
chrX	3227751	3229670	1919	MXRA5:NM_015419
chrX	3235114	3236073	959	MXRA5:NM_015419
chrX	3238013	3243052	5039	MXRA5:NM_015419
chrX	3248014	3248493	479	MXRA5:NM_015419
chrX	3248630	3248819	189	MXRA5:NM_015419
chrX	3261661	3261900	239	MXRA5:NM_015419
chrX	3530184	3530423	239	PRKX:NM_005044
chrX	3533835	3533954	119	PRKX:NM_005044
chrX	3539269	3539388	119	PRKX:NM_005044
chrX	3544448	3544567	119	PRKX:NM_005044
chrX	3559833	3560072	239	PRKX:NM_005044
chrX	3573142	3573501	359	PRKX:NM_005044
chrX	3588161	3588280	119	PRKX:NM_005044
chrX	3592603	3592842	239	PRKX:NM_005044
chrX	3631092	3631331	239	PRKX:NM_005044
chrX	3735758	3735877	119	LOC389906:NR_034031
chrX	3747121	3747480	359	LOC389906:NR_034031
chrX	3761350	3761538	188	LOC389906:NR_034031
chrX	3761590	3761709	119	LOC389906:NR_034031
chrX	5810806	5811762	956	NLGN4X:NM_020742
chrX	5821093	5821932	839	NLGN4X:NM_020742
chrX	5827068	5827307	239	NLGN4X:NM_020742
chrX	5947277	5947516	239	NLGN4X:NM_020742
chrX	5950702	5950821	119	NLGN4X:NM_020742
chrX	6069032	6069511	479	NLGN4X:NM_020742
chrX	6451775	6452254	479	VCX3A:NM_016379
chrX	6452428	6452547	119	VCX3A:NM_016379
chrX	6968305	6968544	239	HDHD1:NM_001135565
chrX	6995196	6995555	359	HDHD1:NM_001135565
chrX	7023650	7023889	239	HDHD1:NM_001135565
chrX	7066043	7066183	140	HDHD1:NM_001135565
chrX	7137662	7137781	119	STS:NM_000351
chrX	7171194	7171426	232	STS:NM_000351
chrX	7175225	7175687	462	STS:NM_000351
chrX	7177362	7177841	479	STS:NM_000351

chrX	7194060	7194179	119	STS:NM_000351
chrX	7223036	7223275	239	STS:NM_000351
chrX	7243340	7243579	239	STS:NM_000351
chrX	7251968	7252207	239	STS:NM_000351
chrX	7267876	7268355	479	STS:NM_000351
chrX	7811236	7811355	119	VCX:NM_013452
chrX	7811498	7812097	599	VCX:NM_013452
chrX	7868673	7868912	239	PNPLA4:NM_004650
chrX	7869986	7870225	239	PNPLA4:NM_004650
chrX	7880042	7880161	119	PNPLA4:NM_004650
chrX	7889702	7889941	239	PNPLA4:NM_004650
chrX	7890032	7890151	119	PNPLA4:NM_004650
chrX	7893951	7894190	239	PNPLA4:NM_004650
chrX	8094994	8095113	119	MIR651:NR_030380
chrX	8138052	8138411	359	VCX2:NM_016378
chrX	8138574	8138693	119	VCX2:NM_016378
chrX	8433423	8433662	239	VCX3B:NM_001001888
chrX	8433745	8434472	727	VCX3B:NM_001001888
chrX	8501005	8501124	119	KAL1:NM_000216
chrX	8502311	8502550	239	KAL1:NM_000216
chrX	8503622	8503861	239	KAL1:NM_000216
chrX	8504778	8505017	239	KAL1:NM_000216
chrX	8507692	8507811	119	KAL1:NM_000216
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chrX	8538523	8538762	239	KAL1:NM_000216
chrX	8553253	8553492	239	KAL1:NM_000216
chrX	8555807	8556046	239	KAL1:NM_000216
chrX	8565066	8565305	239	KAL1:NM_000216
chrX	8591620	8591739	119	KAL1:NM_000216
chrX	8667706	8667825	119	KAL1:NM_000216
chrX	8699805	8699988	183	KAL1:NM_000216
chrX	8700010	8700129	119	KAL1:NM_000216
chrX	8759326	8759445	119	FAM9A:NM_001171186
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chrX	8763004	8763123	119	FAM9A:NM_001171186
chrX	8763381	8763500	119	FAM9A:NM_001171186
chrX	8764246	8764485	239	FAM9A:NM_001171186
chrX	8766147	8766266	119	FAM9A:NM_001171186
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chrX	8766951	8767190	239	FAM9A:NM_001171186
chrX	8768107	8768226	119	FAM9A:NM_001171186
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chrX	8997233	8997352	119	FAM9B:NM_205849

chrX	8997389	8997508	119	FAM9B:NM_205849
chrX	8998145	8998264	119	FAM9B:NM_205849
chrX	8998292	8998411	119	FAM9B:NM_205849
chrX	9000127	9000246	119	FAM9B:NM_205849
chrX	9000322	9000561	239	FAM9B:NM_205849
chrX	9000954	9001073	119	FAM9B:NM_205849
chrX	9001081	9001200	119	FAM9B:NM_205849
chrX	9621618	9621737	119	TBL1X:NM_001139466
chrX	9622249	9622368	119	TBL1X:NM_001139466
chrX	9652036	9652275	239	TBL1X:NM_001139466
chrX	9655997	9656178	181	TBL1X:NM_001139466
chrX	9656224	9656343	119	TBL1X:NM_001139466
chrX	9659565	9659804	239	TBL1X:NM_001139466
chrX	9660104	9660343	239	TBL1X:NM_001139466
chrX	9661161	9661280	119	TBL1X:NM_001139466
chrX	9661351	9661470	119	TBL1X:NM_001139466
chrX	9665358	9665477	119	TBL1X:NM_001139466
chrX	9672974	9673213	239	TBL1X:NM_001139466
chrX	9677265	9677384	119	TBL1X:NM_001139466
chrX	9677617	9677856	239	TBL1X:NM_001139466
chrX	9679614	9679853	239	TBL1X:NM_001139466
chrX	9682933	9683052	119	TBL1X:NM_001139466
chrX	9684213	9684332	119	TBL1X:NM_001139466
chrX	9693773	9693892	119	GPR143:NM_000273
chrX	9707522	9707761	239	GPR143:NM_000273
chrX	9709437	9709556	119	GPR143:NM_000273
chrX	9711599	9711718	119	GPR143:NM_000273
chrX	9714079	9714198	119	GPR143:NM_000273
chrX	9716600	9716719	119	GPR143:NM_000273
chrX	9727359	9727478	119	GPR143:NM_000273
chrX	9728752	9728871	119	GPR143:NM_000273
chrX	9733539	9733658	119	GPR143:NM_000273
chrX	9733712	9733935	223	GPR143:NM_000273
chrX	9754470	9754589	119	SHROOM2:NM_001649
chrX	9841648	9841887	239	SHROOM2:NM_001649
chrX	9858963	9859202	239	SHROOM2:NM_001649
chrX	9862368	9864767	2399	SHROOM2:NM_001649
chrX	9866220	9866339	119	SHROOM2:NM_001649
chrX	9900203	9900922	719	SHROOM2:NM_001649
chrX	9905150	9905749	599	SHROOM2:NM_001649
chrX	9907201	9907440	239	SHROOM2:NM_001649
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chrX	10188689	10188928	239	CLCN4:NM_001256944
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chrX	11778946	11779065	119	MSL3:NM_078628
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chrX	12817272	12817541	269	PRPS2:NM_001039091
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chrX	12828110	12828359	249	PRPS2:NM_001039091
chrX	12837563	12837832	269	PRPS2:NM_001039091
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chrX	23689585	23689824	239	PRDX4:NМ_006406
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chrX	47835541	47837220	1679	ZNF182:NM_001007088
chrX	47842334	47842453	119	ZNF182:NM_001007088
chrX	47842628	47842867	239	ZNF182:NM_001007088
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chrX	47867153	47867392	239	SPACA5:NM_205856
chrX	47867733	47867972	239	SPACA5:NM_205856
chrX	47868742	47868861	119	SPACA5:NM_205856
chrX	47868934	47869053	119	SPACA5:NM_205856
chrX	47917818	47919497	1679	ZNF630:NM_001037735
chrX	47919817	47919936	119	ZNF630:NM_001037735
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chrX	47969338	47969457	119	SSX6:NR_028366
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chrX	47970632	47970751	119	SSX6:NR_028366
chrX	47972541	47972660	119	SSX6:NR_028366
chrX	47976342	47976581	239	SSX6:NR_028366
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chrX	47991803	47991922	119	SPACA5:NM_205856
chrX	48047057	48047176	119	SSX5:NM_021015
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chrX	48051633	48051862	229	SSX5:NM_021015
chrX	48053553	48053672	119	SSX5:NM_021015
chrX	48054113	48054352	239	SSX5:NM_021015
chrX	48054384	48054623	239	SSX5:NM_021015
chrX	48054700	48054819	119	SSX5:NM_021015
chrX	48116651	48116770	119	SSX1:NM_005635
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chrX	48117959	48118078	119	SSX1:NM_005635
chrX	48121166	48121285	119	SSX1:NM_005635
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chrX	48161113	48161232	119	SSX9:NR_073393
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chrX	48163599	48163838	239	SSX9:NR_073393
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chrX	48206929	48207048	119	SSX3:NM_021014
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chrX	48214004	48214243	239	SSX3:NM_021014
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chrX	48248736	48248975	239	SSX4:NM_005636
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chrX	48371172	48371291	119	PORCN:NM_022825
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chrX	48374083	48374202	119	PORCN:NM_022825
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chrX	48374432	48374551	119	PORCN:NM_022825
chrX	48375566	48375685	119	PORCN:NM_022825
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chrX	48382130	48382489	359	EBP:NM_006579
chrX	48385335	48385454	119	EBP:NM_006579
chrX	48385488	48385727	239	EBP:NM_006579
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chrX	48398127	48398366	239	TBC1D25:NM_002536

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chrX	48403214	48403453	239	TBC1D25:NM_002536
chrX	48417229	48417468	239	TBC1D25:NM_002536
chrX	48417520	48417759	239	TBC1D25:NM_002536
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chrX	48457920	48458159	239	WDR13:NM_017883
chrX	48458681	48459040	359	WDR13:NM_017883
chrX	48460142	48460381	239	WDR13:NM_017883
chrX	48460404	48460643	239	WDR13:NM_017883
chrX	48462599	48462838	239	WDR13:NM_017883
chrX	48463208	48463447	239	WDR13:NM_017883
chrX	48542189	48542414	225	WAS:NM_000377
chrX	48542622	48542861	239	WAS:NM_000377
chrX	48543919	48544038	119	WAS:NM_000377
chrX	48544114	48544233	119	WAS:NM_000377
chrX	48544296	48544415	119	WAS:NM_000377
chrX	48544430	48544549	119	WAS:NM_000377
chrX	48545137	48545376	239	WAS:NM_000377
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chrX	48555125	48555244	119	SUV39H1:NM_003173
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chrX	48564609	48565073	464	SUV39H1:NM_003173
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chrX	48624008	48624127	119	GLOD5:NM_001080489
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chrX	48629301	48629540	239	GLOD5:NM_001080489
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chrX	48649507	48649746	239	GATA1:NM_002049
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chrX	48661086	48661205	119	HDAC6:NM_006044
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chrX	48755557	48755676	119	PQBP1:NM_001032381
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chrX	48760572	48760788	216	SLC35A2:NM_005660
chrX	48761833	48762792	959	SLC35A2:NM_005660
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chrX	48771491	48771610	119	PIM2:NM_006875
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chrX	48822938	48823297	359	KCND1:NM_004979
chrX	48823312	48823551	239	KCND1:NM_004979
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chrX	48924700	48925659	959	CCDC120:NM_001163322
chrX	48929478	48929717	239	PRAF2:NM_007213
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chrX	48935473	48935592	119	WDR45:NM_001029896
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chrX	49066034	49066273	239	CACNA1F:NM_001256790
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chrX	52781732	52781851	119	SSX2:NМ_003147
chrX	52782202	52782441	239	SSX2:NМ_003147
chrX	52782903	52783022	119	SSX2:NМ_003147
chrX	52784842	52784961	119	SSX2:NМ_003147
chrX	52786879	52787118	239	SSX2:NМ_003147
chrX	52789351	52789590	239	SSX2:NМ_003147
chrX	52825480	52825719	239	SPANXN5:NМ_001009616
chrX	52826307	52826426	119	SPANXN5:NМ_001009616
chrX	52841567	52841686	119	XAGE5:NМ_130775
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chrX	52843178	52843297	119	XAGE5:NМ_130775
chrX	52844059	52844298	239	XAGE5:NМ_130775
chrX	52847166	52847285	119	XAGE5:NМ_130775
chrX	52891598	52891717	119	XAGE3:NМ_130776
chrX	52893747	52893986	239	XAGE3:NМ_130776
chrX	52895455	52895574	119	XAGE3:NМ_130776
chrX	52896064	52896183	119	XAGE3:NМ_130776
chrX	52936214	52936933	719	FAM156A:NМ_001242491
chrX	52977116	52977835	719	FAM156A:NМ_001242491
chrX	53105765	53106964	1199	GPR173:NМ_018969
chrX	53111632	53111751	119	TSPYL2:NМ_022117
chrX	53111868	53112194	326	TSPYL2:NМ_022117
chrX	53112303	53112515	212	TSPYL2:NМ_022117
chrX	53113706	53113825	119	TSPYL2:NМ_022117
chrX	53113933	53114052	119	TSPYL2:NМ_022117
chrX	53114089	53114328	239	TSPYL2:NМ_022117
chrX	53114396	53114515	119	TSPYL2:NМ_022117
chrX	53114804	53115036	232	TSPYL2:NМ_022117
chrX	53115374	53115553	179	TSPYL2:NМ_022117
chrX	53116920	53117159	239	TSPYL2:NМ_022117
chrX	53222092	53222571	479	KDM5C:NМ_001146702
chrX	53222599	53222838	239	KDM5C:NМ_001146702
chrX	53222934	53223053	119	KDM5C:NМ_001146702
chrX	53223261	53223980	719	KDM5C:NМ_001146702
chrX	53224062	53224301	239	KDM5C:NМ_001146702
chrX	53224383	53224622	239	KDM5C:NМ_001146702
chrX	53225047	53225286	239	KDM5C:NМ_001146702
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chrX	53226946	53227065	119	KDM5C:NМ_001146702

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chrX	53227888	53228127	239	KDM5C:NM_001146702
chrX	53228130	53228369	239	KDM5C:NM_001146702
chrX	53230709	53230948	239	KDM5C:NM_001146702
chrX	53230976	53231215	239	KDM5C:NM_001146702
chrX	53239557	53239796	239	KDM5C:NM_001146702
chrX	53239829	53240068	239	KDM5C:NM_001146702
chrX	53240661	53240877	216	KDM5C:NM_001146702
chrX	53240909	53241148	239	KDM5C:NM_001146702
chrX	53243830	53244069	239	KDM5C:NM_001146702
chrX	53244948	53245187	239	KDM5C:NM_001146702
chrX	53245198	53245437	239	KDM5C:NM_001146702
chrX	53246272	53246511	239	KDM5C:NM_001146702
chrX	53246943	53247182	239	KDM5C:NM_001146702
chrX	53247399	53247638	239	KDM5C:NM_001146702
chrX	53250041	53250160	119	KDM5C:NM_001146702
chrX	53253877	53254116	239	KDM5C:NM_001146702
chrX	53263315	53263494	179	IQSEC2:NM_015075
chrX	53263630	53264126	496	IQSEC2:NM_015075
chrX	53264154	53264419	265	IQSEC2:NM_015075
chrX	53264930	53265049	119	IQSEC2:NM_015075
chrX	53265471	53265710	239	IQSEC2:NM_015075
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chrX	53276114	53276353	239	IQSEC2:NM_015075
chrX	53277237	53277476	239	IQSEC2:NM_015075
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chrX	53279430	53279759	329	IQSEC2:NM_015075
chrX	53279815	53280362	547	IQSEC2:NM_015075
chrX	53283673	53284152	479	IQSEC2:NM_015075
chrX	53284933	53285292	359	IQSEC2:NM_015075
chrX	53308723	53308842	119	IQSEC2:NM_015075
chrX	53310631	53310750	119	IQSEC2:NM_015075
chrX	53321032	53321151	119	IQSEC2:NM_001111125
chrX	53349570	53349773	203	IQSEC2:NM_001111125
chrX	53349812	53350285	473	IQSEC2:NM_001111125
chrX	53407006	53407125	119	SMC1A:NM_006306
chrX	53407536	53407655	119	SMC1A:NM_006306
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chrX	53409384	53409623	239	SMC1A:NM_006306
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chrX	53423345	53423584	239	SMC1A:NM_006306
chrX	53426462	53426671	209	SMC1A:NM_006306
chrX	53430491	53430610	119	SMC1A:NM_006306
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chrX	53440164	53440403	239	SMC1A:NM_006306
chrX	53441703	53441822	119	SMC1A:NM_006306
chrX	53441904	53442143	239	SMC1A:NM_006306
chrX	53448792	53449025	233	SMC1A:NM_006306
chrX	53449435	53449554	119	SMC1A:NM_006306
chrX	53453163	53453402	239	RIBC1:NM_144968
chrX	53454932	53455051	119	RIBC1:NM_144968
chrX	53455181	53455660	479	RIBC1:NM_144968
chrX	53456741	53456980	239	RIBC1:NM_144968
chrX	53457301	53457780	479	RIBC1:NM_001267053
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chrX	53458327	53458566	239	HSD17B10:NM_001037811
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chrX	53459157	53459396	239	HSD17B10:NM_001037811
chrX	53460631	53460870	239	HSD17B10:NM_001037811
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chrX	53562284	53562523	239	HUWE1:NM_031407
chrX	53563101	53563220	119	HUWE1:NM_031407
chrX	53563305	53563664	359	HUWE1:NM_031407
chrX	53564467	53564706	239	HUWE1:NM_031407
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chrX	53570746	53570985	239	HUWE1:NM_031407
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chrX	53573373	53573594	221	HUWE1:NM_031407

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chrX	53574580	53574766	186	HUWE1:NM_031407
chrX	53574826	53575270	444	HUWE1:NM_031407
chrX	53575893	53576492	599	HUWE1:NM_031407
chrX	53577618	53577737	119	HUWE1:NM_031407
chrX	53577826	53578185	359	HUWE1:NM_031407
chrX	53578214	53578453	239	HUWE1:NM_031407
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chrX	53579547	53579906	359	HUWE1:NM_031407
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chrX	53584104	53584253	149	HUWE1:NM_031407
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chrX	53585573	53585812	239	HUWE1:NM_031407
chrX	53585917	53586036	119	HUWE1:NM_031407
chrX	53586284	53586523	239	HUWE1:NM_031407
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chrX	53589116	53589235	119	HUWE1:NM_031407
chrX	53589781	53589900	119	HUWE1:NM_031407
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chrX	53591489	53591728	239	HUWE1:NM_031407
chrX	53591994	53592233	239	HUWE1:NM_031407
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chrX	53596562	53596801	239	HUWE1:NM_031407
chrX	53600697	53600936	239	HUWE1:NM_031407
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chrX	53602556	53602795	239	HUWE1:NM_031407
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chrX	53607769	53608008	239	HUWE1:NM_031407
chrX	53610457	53610936	479	HUWE1:NM_031407
chrX	53611106	53611345	239	HUWE1:NM_031407
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chrX	53616462	53616821	359	HUWE1:NM_031407
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chrX	53619353	53619592	239	HUWE1:NM_031407
chrX	53620263	53620622	359	HUWE1:NM_031407
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chrX	53629512	53629631	119	HUWE1:NM_031407
chrX	53630276	53630515	239	HUWE1:NM_031407
chrX	53631493	53631852	359	HUWE1:NM_031407
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chrX	53652109	53652228	119	HUWE1:NM_031407
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chrX	53659418	53659537	119	HUWE1:NM_031407
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chrX	53680969	53681088	119	HUWE1:NM_031407
chrX	53964393	53964512	119	PHF8:NM_001184897
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chrX	54011324	54011683	359	PHF8:NM_001184897
chrX	54012138	54012435	297	PHF8:NM_001184897
chrX	54013494	54013613	119	PHF8:NM_001184897
chrX	54014168	54014407	239	PHF8:NM_001184897
chrX	54019161	54019280	119	PHF8:NM_001184897
chrX	54020005	54020364	359	PHF8:NM_001184897
chrX	54022111	54022230	119	PHF8:NM_001184897
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chrX	54029012	54029131	119	PHF8:NM_001184897
chrX	54037516	54037755	239	PHF8:NM_001184897
chrX	54040783	54041022	239	PHF8:NM_001184897

chrX	54042979	54043218	239	PHF8:NM_001184897
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chrX	54048686	54048805	119	PHF8:NM_001184897
chrX	54049174	54049293	119	PHF8:NM_001184897
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chrX	54071256	54071375	119	PHF8:NM_001184896
chrX	54099413	54099772	359	FAM120C:NM_017848
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chrX	54114173	54114412	239	FAM120C:NM_017848
chrX	54117682	54117897	215	FAM120C:NM_017848
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chrX	54160163	54160522	359	FAM120C:NM_017848
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chrX	54185746	54186105	359	FAM120C:NM_017848
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chrX	54224742	54225101	359	WNK3:NM_001002838
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chrX	54264720	54264959	239	WNK3:NM_001002838
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chrX	54359538	54360137	599	WNK3:NM_001002838
chrX	54466835	54466954	119	TSR2:NM_058163

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chrX	54470818	54471035	217	TSR2:NM_058163
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chrX	54475200	54475439	239	FGD1:NM_004463
chrX	54475519	54475758	239	FGD1:NM_004463
chrX	54476083	54476202	119	FGD1:NM_004463
chrX	54476659	54476778	119	FGD1:NM_004463
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chrX	54494171	54494410	239	FGD1:NM_004463
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chrX	54496374	54496493	119	FGD1:NM_004463
chrX	54496534	54496956	422	FGD1:NM_004463
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chrX	54567644	54567883	239	GNL3L:NM_001184819
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chrX	79952180	79952419	239	BRWD3:NM_153252
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chrX	80532355	80532695	340	SH3BGRL:NM_003022
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chrX	85158497	85158646	149	CHM:NM_000390
chrX	85158706	85158825	119	CHM:NM_000390
chrX	85166245	85166364	119	CHM:NM_000390
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chrX	85233713	85233952	239	CHM:NM_000390
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chrX	103231516	103231635	119	H2BFXP:NR_003238
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chrX	114391138	114391257	119	LRCH2:NM_001243963
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chrX	118770978	118771193	215	SEPT6:NM_145800
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chrX	119246712	119246861	149	RHOXF1:NM_139282
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chrX	119695172	119695300	128	CUL4B:NM_003588
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chrX	120009334	120009573	239	CT47B1:NM_001145718
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chrX	153284846	153285085	239	IRAK1:NM_001025242
chrX	153285097	153285216	119	IRAK1:NM_001025242
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chrX	153295730	153296959	1229	MECP2:NM_004992
chrX	153297623	153298012	389	MECP2:NM_004992
chrX	153357595	153357714	119	MECP2:NM_004992

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chrX	153448163	153448282	119	OPN1MW:NM_000513
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chrX	153516821	153516940	119	TEX28:NM_001586
chrX	153524130	153524399	269	TKTL1:NM_001145933
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chrX	153533565	153533834	269	TKTL1:NM_001145933
chrX	153537656	153537805	149	TKTL1:NM_001145933
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chrX	153578337	153578606	269	FLNA:NM_001110556
chrX	153579193	153579462	269	FLNA:NM_001110556
chrX	153579887	153580126	239	FLNA:NM_001110556

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chrX	153608541	153608780	239	EMD:NM_000117
chrX	153609048	153609579	531	EMD:NM_000117
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chrX	153627792	153627941	149	RPL10:NM_001256577
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chrX	153648307	153648666	359	TAZ:NM_000116
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chrX	153661207	153661356	149	ATP6AP1:NM_001183
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chrX	153667269	153667538	269	GDI1:NM_001493
chrX	153668237	153668506	269	GDI1:NM_001493
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chrX	153690409	153690678	269	PLXNA3:NM_017514
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chrX	153692236	153692697	461	PLXNA3:NM_017514

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chrX	153700891	153701040	149	PLXNA3:NM_017514
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chrX	153762482	153762751	269	G6PD:NM_000402
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chrX	153788578	153788815	237	IKBK:NM_001099856
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chrX	154612482	154612921	439	F8A1:NM_012151
chrX	154687104	154687542	438	F8A1:NM_012151
chrX	154687597	154688213	616	F8A1:NM_012151
chrX	154689235	154689594	359	H2AFB1:NM_001017990
chrX	154721142	154721381	239	TMLHE:NM_018196
chrX	154721967	154722413	446	TMLHE:NM_018196
chrX	154736467	154736856	389	TMLHE:NM_018196

chrX	154741244	154741513	269	TMLHE:NМ_018196
chrX	154743607	154743966	359	TMLHE:NМ_018196
chrX	154754055	154754324	269	TMLHE:NМ_018196
chrX	154774697	154774966	269	TMLHE:NМ_018196
chrX	155003487	155004446	959	SPRY3:NМ_005840
chrX	155119083	155119322	239	VAMP7:NМ_001145149
chrX	155125255	155125374	119	VAMP7:NМ_001145149
chrX	155127725	155127964	239	VAMP7:NМ_001145149
chrX	155130146	155130265	119	VAMP7:NМ_001145149
chrX	155149451	155149570	119	VAMP7:NМ_001145149
chrX	155169351	155169470	119	VAMP7:NМ_001145149
chrX	155171495	155171854	359	VAMP7:NМ_001145149
chrX	155227379	155227498	119	IL9R:NМ_002186
chrX	155231003	155231242	239	IL9R:NМ_002186
chrX	155232496	155232735	239	IL9R:NМ_002186
chrX	155233110	155233229	119	IL9R:NМ_002186
chrX	155233311	155233550	239	IL9R:NМ_002186
chrX	155234038	155234277	239	IL9R:NМ_002186
chrX	155234924	155235163	239	IL9R:NМ_002186
chrX	155235741	155235860	119	IL9R:NМ_002186
chrX	155237170	155237289	119	IL9R:NМ_002186
chrX	155239455	155239789	334	IL9R:NМ_002186
chrX	155239895	155240134	239	IL9R:NМ_002186
