

**Table S19: Protein coding genes in CNVs detected by NGS in HAB/LAB mice.** The symbols, MGI IDs and genomic positions of the genes are shown. The last column includes the number of respective CNV (see chapter "Position of CNVs detected by NGS") the gene is overlapping with. If more than one number is mentioned, the gene maps into the genomic position of multiple CNVs.

Gene symbol	MGI ID	Chr	Gene start	Gene end	CNV No.
Sntg1	1918346	1	8,351,556	9,289,959	1 - 7
2610203C22Rik	1919731	1	9,550,913	9,621,256	10
Cpa6	3045348	1	10,314,801	10,710,026	13
Kcnq5	1924937	1	21,388,484	21,952,023	16
Fam135a	1915437	1	24,018,522	24,093,413	20
Col19a1	1095415	1	24,268,729	24,594,311	21, 22
Gm10222	3642643	1	24,619,243	24,619,539	23
Gm10925	3809095	1	24,621,347	24,621,490	23
Bai3	2441837	1	25,124,321	25,886,552	25, 26
4931408C20Rik	3588222	1	26,738,659	26,744,305	31
4931428L18Rik	1918238	1	31,197,923	31,279,506	58, 59
Gm3224	3781403	1	32,123,828	32,125,991	65
Khdrbs2	2159649	1	32,229,651	32,714,583	68 - 71
Gm2987	3781165	1	33,176,423	33,297,462	75 - 79
Prim2	97758	1	33,510,659	33,726,600	83 - 85
Gm11158	3779410	1	34,428,991	34,460,294	87
Gm3052	3781230	1	34,472,608	34,474,843	88
Tmem131	1927110	1	36,849,036	36,996,372	99
Gm11155	3779407	1	36,968,172	36,975,575	99
Vwa3b	1918103	1	37,083,441	37,133,841	100
Npas2	109232	1	39,251,049	39,419,031	102
Tbc1d8	1927225	1	39,428,345	39,535,580	103
Gulp1	1920407	1	44,608,356	44,853,678	109, 110
Dnahc7b	2684953	1	46,123,583	46,430,395	128
Aox3l1	3529596	1	58,335,170	58,436,108	132, 133
Fam126b	1098784	1	58,579,650	58,643,167	134
Casp8	1261423	1	58,852,276	58,903,851	136, 137
Trak2	1918077	1	58,957,294	59,003,342	139, 140
Cdk15	3583944	1	59,313,750	59,409,837	141, 142
Tns1	104552	1	73,956,805	74,171,021	152
Rhbdd1	1924117	1	82,313,027	82,441,941	156 - 159
Col4a3	104688	1	82,583,496	82,718,634	160
Gm6217	3644079	1	82,927,143	82,931,714	161
A030003K21Rik	1925163	1	82,939,132	82,951,441	161
C130026I21Rik	3612702	1	84,989,265	85,267,141	167 - 183
Gm7582	3643856	1	85,022,924	85,038,530	169, 170
A530032D15Rik	3037746	1	85,084,714	85,106,428	173 - 176
A530040E14Rik	3612703	1	85,102,521	85,110,610	175, 176
Gm2397	3780565	1	85,107,922	85,115,098	176
Gm11120	3779373	1	85,256,405	85,257,589	183
Gm2619	3780787	1	85,310,071	85,323,971	184 - 186
Gm2666	3780835	1	87,380,827	87,381,717	191

Gene symbol	MGI ID	Chr	Gene start	Gene end	CNV No.
Gm2427	3780593	1	87,386,276	87,411,814	191 - 193
Gm7592	3644077	1	87,423,175	87,465,775	194 - 198
Sp110	1923364	1	87,473,474	87,495,392	199, 200
Sp140	3702467	1	87,496,953	87,541,612	200 - 204
Gm10552	3642083	1	87,500,660	87,547,257	201 - 204
Sp100	109561	1	87,546,563	87,606,573	204, 205
Gm7133	3643070	1	99,059,437	99,198,851	216 - 218
Gm7135	3647710	1	99,243,006	99,375,579	220 - 222
Cntnap5b	3664583	1	101,669,342	102,382,519	247 - 250
Cdh20	1346069	1	106,665,106	106,892,058	257
Pign	1351629	1	107,417,723	107,555,585	262 - 265
Vps4b	1100499	1	108,660,648	108,693,305	268
Cdh7	2442792	1	111,879,008	112,036,734	312
Cdh19	3588198	1	112,785,772	112,873,949	321, 322
Cntnap5a	3643623	1	117,581,333	118,478,603	351 - 353
B020011L13Rik	3588191	1	119,677,710	119,699,938	370
Mapkapk2	109298	1	132,950,281	132,994,120	378
Lrrn2	106037	1	134,776,850	134,836,582	380
Golt1a	1915588	1	135,206,400	135,219,603	383
Fam5c	2443035	1	148,342,759	148,749,601	397 - 403
BC003331	2385108	1	152,208,435	152,240,210	465
Tpr	1922066	1	152,239,968	152,297,062	466
Hmcn1	2685047	1	152,409,654	152,840,565	469 - 472
Gm8947	3648958	1	153,039,504	153,041,184	474
Gm8951	3779826	1	153,045,534	153,047,211	474
3110040M04Rik	1920426	1	153,051,249	153,052,926	474
Gm4337	3782521	1	153,057,256	153,058,933	474
1200016B10Rik	1914125	1	153,214,829	153,275,585	476
Fam129a	2137237	1	153,418,316	153,569,069	479, 480
1700025G04Rik	1916649	1	153,737,978	153,853,897	482
Glt25d2	2138232	1	154,246,960	154,357,825	488, 489
Npl	1921341	1	155,350,146	155,396,844	494
5830403L16Rik	1923273	1	155,696,672	155,747,338	496
Rasal2	2443881	1	159,070,665	159,342,726	501
4930562F17Rik	1922506	1	161,065,528	161,096,518	502
Rfwd2	1347046	1	161,162,457	161,277,711	504
Nos1ap	1917979	1	172,232,799	172,519,992	507, 508
Mark1	2664902	1	186,721,482	186,823,358	519
Ush2a	1341292	1	190,085,902	190,788,920	520, 521
Hhat	2444681	1	194,336,710	194,597,407	522 - 524
Plxna2	107684	1	196,446,023	196,643,063	537
Cd46	1203290	1	196,867,479	196,918,442	538

Gene symbol	MGI ID	Chr	Gene start	Gene end	CNV No.
Prpf18	1914479	2	4,543,104	4,573,159	541
Bend7	2443100	2	4,638,877	4,723,188	543
Camk1d	2442190	2	5,214,503	5,635,561	544
Cdc123	2138811	2	5,715,340	5,766,210	545
Celf2	1338822	2	6,462,915	7,002,348	546
Sfmbt2	2447794	2	10,292,137	10,516,880	551
Nsun6	1921705	2	14,916,758	14,976,511	556 - 558
Gm13318	3651283	2	15,963,753	16,072,433	592 - 594
Nebi	1921353	2	17,265,536	17,653,091	596, 597
Armc3	1918132	2	19,120,929	19,231,868	607, 608
Etl4	95454	2	19,831,407	20,732,340	611 - 618
Gad2	95634	2	22,477,725	22,549,394	623
Slc25a25	1915913	2	32,270,007	32,306,965	625
St6galnac6	1355316	2	32,455,229	32,476,326	626
Garnl3	2139309	2	32,841,886	32,987,174	627
C230014O12Rik	3045377	2	33,873,809	33,966,964	628
4930402F06Rik	1922104	2	35,231,082	35,252,695	632
Dab2ip	1916851	2	35,413,786	35,586,514	637, 638
Rabgap1	2385139	2	37,298,799	37,421,974	647
Dennd1a	2442794	2	37,654,511	38,142,910	648
Psmb7	107637	2	38,443,556	38,499,607	649
Lrp1b	2151136	2	40,450,768	42,509,118	660 - 663
Gm3937	3782111	2	41,073,913	41,076,698	661
Arhgap15	1923367	2	43,604,344	44,251,473	664, 665
Lypd6	2443848	2	49,921,982	50,049,084	666, 667
Mmadhc	1923786	2	50,135,401	50,152,321	668
Fmnl2	1918659	2	52,716,894	52,992,838	671
Prpf40a	1860512	2	52,993,738	53,050,318	672
Galnt13	2139447	2	54,288,728	54,970,720	694 - 697
Cytip	2183535	2	57,981,548	58,047,943	698
Gm13546	3649666	2	58,016,412	58,029,474	698
Acvr1	87911	2	58,241,055	58,419,568	701
Slc4a10	2150150	2	61,884,519	62,164,787	705
Kcnh7	2159566	2	62,531,471	63,022,344	706, 707
Rapgef4	1917723	2	71,819,297	72,095,531	713
Zfp385b	2444734	2	77,248,691	77,657,696	715
Cwc22	2136773	2	77,719,216	77,784,432	716, 717
4930440I19Rik	1925408	2	77,889,234	78,034,587	722, 723
Gm13691	3702053	2	83,830,710	83,833,202	738
Ckap5	1923036	2	91,366,919	91,460,821	741
Gm10801	3641656	2	98,502,394	98,504,240	750
Gm10800	3641657	2	98,506,704	98,507,458	750

Gene symbol	MGI ID	Chr	Gene start	Gene end	CNV No.
Ldlrad3	2138856	2	101,790,360	102,026,542	782
Pamr1	2445082	2	102,390,169	102,483,198	784
Slc1a2	101931	2	102,498,816	102,630,941	785
Cd44	88338	2	102,651,298	102,741,767	786
D430041D05Rik	2181743	2	103,983,230	104,250,150	790 - 792
Tcp11l1	2444263	2	104,497,445	104,552,326	793
Ccdc73	3606488	2	104,707,962	104,858,061	794
Elp4	1925016	2	105,537,477	105,744,721	797
Immp1l	1913791	2	105,744,795	105,805,715	798
Gm4415	3782600	2	105,786,254	105,791,147	798
Dcdc5	3045363	2	106,062,214	106,246,308	800
Mpped2	1924265	2	106,533,426	106,708,513	802
C130023O10Rik	2443634	2	106,658,215	106,659,689	802
Sema6d	2387661	2	123,915,705	124,493,506	829 - 832
Fbn1	95489	2	125,126,330	125,333,729	835 - 837
Pak7	1920334	2	135,906,840	136,213,703	844
MacroD2	1920149	2	140,221,045	142,218,702	846 - 855
Slc24a3	2137513	2	144,993,490	145,467,902	856
9030622O22Rik	1918820	2	147,770,476	147,865,939	865
Cst9	1340053	2	148,660,883	148,664,474	873
Tmem90b	3702158	2	149,654,947	149,830,128	885
Chmp4b	1922858	2	154,477,441	154,520,521	897, 898
a	87853	2	154,617,138	154,876,748	899 - 903
Cep250	108084	2	155,782,194	155,824,636	906
6430550D23Rik	2443361	2	155,799,015	155,833,713	906
Phf20	2444148	2	156,022,202	156,135,688	907
4922505G16Rik	3603828	2	157,034,286	157,105,285	911, 912
Ghrh	95709	2	157,155,233	157,173,242	913
Manbal	1916411	2	157,193,330	157,222,499	914
D630003M21Rik	3606579	2	158,008,269	158,054,958	921
1700060C20Rik	1920649	2	158,017,745	158,021,478	921
Gm14243	3651252	2	161,004,800	161,042,313	938
Ptptrt	1321152	2	161,347,726	162,486,883	943 - 945
Gm11018	3779238	2	163,429,141	163,520,600	949
Wisp2	1328326	2	163,646,597	163,658,882	951
Elmo2	2153045	2	165,113,531	165,151,979	954
Atp9a	1330826	2	168,459,938	168,567,909	957
Pfdn4	1923512	2	170,321,928	170,344,623	960, 961
Gm6236	3779577	3	9,860,725	9,960,987	969
Raly1	1924147	3	13,776,848	14,143,963	983, 984
Car13	1931322	3	14,641,727	14,663,002	986
Gm9733	3780136	3	15,296,551	15,332,302	1003, 1004

Gene symbol	MGI ID	Chr	Gene start	Gene end	CNV No.
Sirpb1a	2444824	3	15,371,819	15,426,504	1008 - 1010
Sirpb1b	3779828	3	15,495,754	15,575,065	1013 - 1016
Sirpb1c	3807521	3	15,695,145	15,748,528	1019, 1020
Gm5150	3779469	3	15,848,070	15,906,332	1028 - 1033
Gm2563	3780731	3	16,131,708	16,618,043	1038 - 1045
Spata16	1918112	3	26,536,542	26,882,134	1065
Tnik	1916264	3	28,162,136	28,574,757	1067
Gm1527	2686373	3	28,791,539	28,825,646	1068
Lrriq4	1915557	3	30,543,429	30,571,353	1076
Kcnmb2	1919663	3	31,801,429	32,099,102	1089 - 1091
Pik3ca	1206581	3	32,296,593	32,365,029	1094
Gm6639	3779620	3	35,518,546	35,565,048	1108
4932438A13Rik	2444631	3	36,762,043	36,951,955	1115, 1116
Intu	2443752	3	40,430,208	40,508,696	1118
Ccrn4l	109382	3	51,028,369	51,055,566	1129, 1130
Naa15	1922088	3	51,220,048	51,277,946	1131
Clrn1	2388124	3	58,647,950	58,689,262	1133
Med12l	2139916	3	58,810,645	59,118,668	1136
4930449A18Rik	1921922	3	59,581,731	59,643,841	1139, 1140
Veph1	1920039	3	65,860,557	66,100,741	1151
Ppm1l	2139740	3	69,120,783	69,364,724	1155
Pdgfc	1859631	3	80,840,338	81,017,962	1163 - 1165
D930015E06Rik	2443399	3	83,702,209	83,844,083	1169, 1170
Mnd1	1924165	3	83,891,856	83,959,708	1171
Lrba	1933162	3	86,028,612	86,586,615	1172 - 1174
Fcrl5	3053558	3	87,239,704	87,271,446	1181
Kcnn3	2153183	3	89,324,086	89,471,683	1183
4930558C23Rik	1914904	3	95,190,380	95,206,763	1193, 1194
Ctsk	107823	3	95,303,208	95,313,284	1195
Ctss	107341	3	95,330,708	95,360,322	1196
Syt6	1859544	3	103,379,154	103,449,490	1202, 1203
Lrig2	2443718	3	104,257,907	104,315,779	1206
1700061l17Rik	1920612	3	116,769,830	116,780,683	1213
Alg14	1914039	3	120,994,735	121,064,929	1225
Abca4	109424	3	121,747,361	121,882,979	1226
Fnbp1l	1925642	3	122,241,637	122,322,585	1227
Arsj	2443513	3	126,066,770	126,143,292	1233
Slc39a8	1914797	3	135,488,243	135,551,532	1234
Bank1	2442120	3	135,716,327	135,989,010	1236
Ppp3ca	107164	3	136,333,088	136,600,691	1239
Emcn	1891716	3	137,004,031	137,095,149	1241
Gm2475	3780642	3	142,680,630	142,703,645	1244, 1245

Gene symbol	MGI ID	Chr	Gene start	Gene end	CNV No.
Gm6260	3645891	3	143,333,854	143,375,107	1254
Cryz	88527	3	154,259,675	154,286,146	1260
Negr1	2444846	3	156,224,758	156,979,409	1273, 1274
Lrrc69	1920564	4	14,550,767	14,723,207	1285, 1286
Gm2571	3780738	4	14,772,219	14,773,063	1287
Necab1	1916602	4	14,879,392	15,076,941	1288
Nkain3	2444830	4	20,046,021	20,706,013	1290 - 1292
Gm3009	3781187	4	30,828,265	30,925,711	1300
Gabrr2	95626	4	33,149,974	33,182,840	1302
Lingo2	2442298	4	35,654,655	36,898,780	1305
Ccl21b	1349182	4	41,774,204	41,775,337	1309
Gm10598	3711244	4	41,902,019	41,906,852	1317
Gm2438	3780605	4	41,924,280	41,938,942	1319, 1320
Gm3892	3782065	4	41,925,875	41,960,431	1319 - 1322
Gm2442	3780609	4	41,941,854	41,943,487	1320
Gm3893	3782066	4	41,961,930	41,963,010	1322
Gm13304	3710514	4	41,985,540	41,986,640	1323
Gm13306	3713752	4	42,024,159	42,029,562	1328
Gm13305	3801997	4	42,029,565	42,039,326	1328, 1329
Gm2478	3780645	4	42,087,631	42,090,601	1333
Gm10595	3641751	4	42,090,151	42,090,576	1333
Gm2023	3780192	4	42,248,431	42,250,498	1336
Gm2091	3780258	4	42,269,495	42,271,067	1337
Gm2002	3780172	4	42,339,260	42,349,021	1342, 1343
Gm2506	3780673	4	42,349,029	42,354,382	1343, 1344
Ccl21c	1891386	4	42,391,950	42,393,080	1348
Gm2537	3780705	4	42,439,644	42,454,306	1352
Gm2542	3780710	4	42,536,112	42,541,707	1358
Gm6389	3643815	4	42,564,415	42,579,081	1359, 1360
Gm10593	3710526	4	42,566,010	42,600,570	1359 - 1361
Gm2163	3780332	4	42,602,069	42,603,149	1361
Gm10591	3711256	4	42,625,653	42,626,784	1362
Gm2564	3708691	4	42,643,230	42,645,246	1364
Ccl27b	1891389	4	42,664,172	42,669,525	1366
Il11ra2	109123	4	42,669,533	42,679,294	1366, 1367
4930578G10Rik	1923202	4	42,749,077	42,859,120	1371 - 1373
Ccl19	1346316	4	42,768,057	42,770,109	1372
Gm12394	3649790	4	42,795,460	42,869,643	1373
Rnf38	1920719	4	44,139,082	44,246,661	1377
Coro2a	1345966	4	46,549,815	46,615,074	1380
Gm3249	3781427	4	53,906,591	53,999,946	1382
Fkbp15	2444782	4	61,961,376	62,021,582	1383

Gene symbol	MGI ID	Chr	Gene start	Gene end	CNV No.
Frmd3	2442466	4	73,659,346	73,848,118	1386, 1387
Ptprd	97812	4	75,587,143	77,857,865	1392 - 1400
Slc24a2	1923626	4	86,629,028	86,876,381	1401, 1402
Dock7	1914549	4	98,603,366	98,787,551	1419
Ror1	1347520	4	99,768,396	100,117,370	1420
Pde4b	99557	4	101,760,148	102,279,864	1425 - 1427
Dab1	108554	4	103,291,964	104,417,449	1428 - 1430
Gm1027	2685873	4	106,353,022	106,403,530	1431
Acot11	1913736	4	106,417,160	106,477,603	1432
Glis1	2386723	4	107,107,196	107,307,666	1433, 1434
Scp2	98254	4	107,716,444	107,817,603	1438
Faf1	109419	4	109,349,193	109,636,565	1442
Elavl4	107427	4	109,876,327	110,024,514	1443
Agbl4	1918244	4	110,070,266	111,336,929	1444 - 1446
Gm2744	3780913	4	110,945,020	110,945,693	1444
Skint4	2444425	4	111,744,621	111,840,681	1453, 1454
Skint3	3045331	4	111,904,850	111,973,073	1455
Skint9	3045341	4	112,058,574	112,106,590	1456, 1457
Skint2	3649629	4	112,286,202	112,320,445	1461, 1462
Skint10	2685416	4	112,383,752	112,447,471	1465
Skint6	3649262	4	112,908,844	112,959,568	1473, 1474
Skint5	3650151	4	113,613,249	113,672,102	1487 - 1493
Skint11	2685415	4	113,835,989	113,917,633	1503 - 1509
Ipp	96581	4	116,180,157	116,210,848	1515
Rnf220	1913993	4	116,944,068	117,169,657	1516
St3gal3	1316659	4	117,604,759	117,807,519	1519
Rimk1a	3040686	4	119,137,888	119,165,233	1521
Hivep3	106589	4	119,406,389	119,810,650	1526 - 1528
Scmh1	1352762	4	120,077,886	120,202,791	1530
Rhbdl2	3608413	4	123,465,117	123,507,147	1531
Nipal3	1921802	4	135,001,335	135,050,953	1534
Pax7	97491	4	139,292,977	139,388,883	1537
Gm694	2685540	4	140,988,587	140,992,020	1542
Pdpr	103098	4	142,857,334	142,889,467	1546
Cttnbip1	1915756	4	148,892,345	148,940,546	1548
Kcnab2	109239	4	151,764,851	151,851,980	1549
Ajap1	2685419	4	152,747,330	152,856,939	1550
BC039966	3039570	4	153,321,742	153,324,612	1551
Megf6	1919351	4	153,544,839	153,649,822	1552
Arhgef16	2446219	4	153,652,595	153,675,785	1553
Abcb1a	97570	5	8,660,077	8,748,575	1559
9330182L06Rik	2443264	5	9,266,118	9,481,825	1564 - 1570



Gene symbol	MGI ID	Chr	Gene start	Gene end	CNV No.
Gm10482	3644444	5	10,187,866	10,237,890	1581
Sema3d	1860118	5	12,383,556	12,587,058	1609 - 1611
Gm10354	3809109	5	14,974,503	14,978,935	1619
Speer4d	2668869	5	15,124,882	15,129,682	1626
Galnt11	2444392	5	24,728,700	24,771,736	1632
Actr3b	2661120	5	25,265,815	25,356,160	1633
Gm1979	3780148	5	26,323,148	26,331,338	1634
Dpp6	94921	5	27,143,743	28,054,045	1635
Dnajb6	1344381	5	30,062,228	30,113,018	1637
Gpr113	2685887	5	30,519,971	30,532,262	1638
Sorcs2	1932289	5	36,359,829	36,740,788	1640, 1641
Jakmip1	1923321	5	37,438,671	37,539,255	1643
Tbc1d1	1889508	5	64,547,544	64,742,721	1650
Gm3521	3781698	5	66,228,871	66,262,728	1654
9130230L23Rik	3041166	5	66,370,597	66,395,524	1655, 1656
Apbb2	108405	5	66,690,100	67,010,067	1657
Shisa3	3041225	5	67,999,122	68,014,791	1659
Lphn3	2441950	5	81,449,163	82,254,158	1662
Gnrhr	95790	5	86,609,779	86,626,926	1672
Gm7714	3646267	5	88,697,944	88,711,860	1680
Gm2521	3780688	5	88,852,242	88,852,640	1682
Slc4a4	1927555	5	89,315,843	89,668,678	1684 - 1687
Gc	95669	5	89,846,549	89,886,790	1691
Npffr2	1860130	5	89,956,454	90,012,765	1692, 1693
Adamts3	3045353	5	90,105,946	90,312,431	1694
Gm10426	3642470	5	90,807,679	90,807,894	1696
Gm16427	3704103	5	93,910,849	93,914,418	1700
C87414	2141341	5	94,064,019	94,100,577	1707
Gm7792	3704104	5	94,281,097	94,284,656	1710
Gm16429	3704105	5	94,353,803	94,358,078	1714
Gm16522	4360987	5	94,731,544	94,735,821	1723
Gm3139	3781318	5	94,955,309	94,968,473	1729
Gm3147	3781326	5	95,041,094	95,045,367	1732
Gm6509	3779602	5	95,053,038	95,055,771	1732
Gm6523	3779604	5	95,206,896	95,210,006	1734
Gm3183	3781362	5	95,294,521	95,307,501	1740, 1741
Gm7942	3646599	5	95,537,068	95,540,177	1743
Gm16513	2141041	5	95,611,623	95,624,586	1746 - 1748
Gm10424	3704250	5	95,697,512	95,701,787	1752
Gm6468	3646666	5	95,709,481	95,711,989	1752
Gm3259	3781437	5	95,734,834	95,772,936	1753 - 1755
Gm7963	3643214	5	95,854,546	95,857,656	1757

Gene symbol	MGI ID	Chr	Gene start	Gene end	CNV No.
D5Ertd577e	1261918	5	95,885,825	95,914,583	1757 - 1759
Gm3286	3781464	5	95,947,694	95,950,987	1760
Gm7971	3779772	5	96,019,618	96,023,894	1763
E330014E10Rik	3615333	5	96,204,889	96,233,734	1768, 1769
Antxr2	1919164	5	98,313,707	98,459,981	1773
A930011G23Rik	2442790	5	99,726,263	100,161,738	1774
Hsd17b13	2140804	5	104,384,459	104,406,429	1781
Gm3162	3781341	5	104,668,332	104,700,005	1783
Pkd2	1099818	5	104,888,469	104,934,838	1787, 1788
Zfp33b	1916873	5	105,000,731	105,012,344	1790
C230055K05Rik	2441896	5	105,242,188	105,288,830	1801 - 1805
Brdt	1891374	5	107,760,178	107,816,077	1815
Fam69a	1914516	5	108,337,072	108,416,104	1817
Pde6b	97525	5	108,817,410	108,861,416	1818, 1819
Gak	2442153	5	108,998,430	109,058,758	1820
Gm3432	3781610	5	109,323,598	109,390,640	1825
Golga3	96958	5	110,605,720	110,655,489	1836
Abcb9	1861729	5	124,511,539	124,545,807	1840
Aacs	1926144	5	125,956,184	125,997,782	1841, 1842
Tmem132b	3609245	5	126,007,235	126,269,921	1843, 1844
Tmem132c	2443061	5	127,722,178	128,046,163	1853, 1854
Glt1d1	2442755	5	128,112,632	128,189,124	1855
Tmem132d	3044963	5	128,263,861	128,938,937	1856
Sfswap	101760	5	130,007,106	130,077,258	1857
Caln1	2155987	5	130,845,346	131,316,515	1858
Auts2	1919847	5	131,913,205	133,019,214	1859 - 1861
Emid2	2155345	5	137,217,629	137,359,079	1864, 1865
Flt1	95558	5	148,373,180	148,537,587	1867
Thsd7a	2685683	6	12,267,087	12,699,410	1875
Gm2796	3780965	6	13,402,133	13,411,684	1884, 1885
B630005N14Rik	2141466	6	13,578,647	13,627,966	1886
St7	1927450	6	17,642,933	17,893,025	1905
Cttnbp2	1353467	6	18,316,478	18,465,338	1906
Cadps2	2443963	6	23,212,773	23,789,420	1917, 1918
Smo	108075	6	29,685,694	29,711,365	1921
Plxna4	2179061	6	32,095,926	32,538,192	1925
Chchd3	1913325	6	32,740,976	33,010,260	1927, 1928
Exoc4	1096376	6	33,199,085	33,923,979	1929 - 1933
Bpgm	1098242	6	34,426,207	34,455,613	1935
Dgki	2443430	6	36,796,022	37,250,184	1936
Cntnap2	1914047	6	45,010,060	47,251,368	1947
Gm5875	3647376	6	52,459,878	52,464,030	1956

Gene symbol	MGI ID	Chr	Gene start	Gene end	CNV No.
Grid2	95813	6	63,205,870	64,618,276	1958 - 1961
Gm10019	3642552	6	70,648,805	70,672,950	2026
Lrrtm4	2389180	6	79,968,871	80,760,137	2044
Mgll	1346042	6	88,674,406	88,778,354	2050
Mcm2	105380	6	88,833,469	88,848,694	2051
Gm4272	3782449	6	89,126,124	89,131,295	2052
Gm6507	3645279	6	89,134,666	89,136,019	2053
Gm6511	3645589	6	89,154,081	89,155,527	2054
Gm839	2685685	6	89,161,159	89,166,231	2054
Magi1	1203522	6	93,628,030	94,233,316	2061
Fam19a1	2443695	6	96,063,148	96,607,192	2063
Gm765	2685611	6	98,188,071	98,292,666	2065
Gm7865	3779768	6	98,457,720	98,647,619	2066
Gxylt2	2682940	6	100,654,728	100,755,075	2069
Pdzrn3	1933157	6	101,099,603	101,327,891	2073, 2074
Gm9871	3647145	6	101,724,243	101,751,976	2082
Cntn3	99534	6	102,113,300	102,414,661	2089
Chl1	1098266	6	103,460,870	103,683,029	2099
Cntn6	1858223	6	104,442,784	104,813,400	2107
Gm4379	3782564	6	105,485,938	105,739,128	2113, 2114
Cntn4	1095737	6	105,627,654	106,649,304	2114 - 2119
Lrrn1	106038	6	107,479,777	107,520,204	2126
Rad18	1890476	6	112,569,844	112,646,680	2133
Srgap3	2152938	6	112,667,965	112,897,260	2134
Arpc4	1915339	6	113,328,109	113,340,442	2135
Atp2b2	105368	6	113,695,663	113,992,607	2136
BC060267	2681834	6	115,760,914	115,788,430	2139
Ift122	1932386	6	115,803,488	115,876,717	2140
D6Wsu116e	106463	6	116,158,075	116,212,683	2141
Rassf4	2386853	6	116,583,026	116,623,809	2142
8430408G22Rik	1918730	6	116,600,717	116,602,812	2142
Tmem72	2442707	6	116,642,648	116,666,931	2144
Rasgef1a	1917977	6	117,961,392	118,041,564	2148
Zfp248	1919970	6	118,377,337	118,405,546	2152
Atp6v1e1	894326	6	120,745,262	120,772,703	2156, 2157
Pik3c2g	1203730	6	139,664,382	139,917,807	2191 - 2197
Gm2010	3780179	6	140,248,354	140,308,205	2200, 2201
Plekha5	1923802	6	140,372,620	140,543,427	2204 - 2206
Aebp2	1338038	6	140,570,970	140,626,993	2209
Gm11077	3779304	6	140,677,805	140,704,574	2211, 2212
Slco1c1	1889679	6	141,472,907	141,518,241	2221
Slco1b2	1351899	6	141,578,039	141,635,167	2222

Gene symbol	MGI ID	Chr	Gene start	Gene end	CNV No.
St8sia1	106011	6	142,770,065	142,912,972	2226, 2227
D6Ertd474e	1196315	6	143,194,408	143,245,792	2233
Sox5	98367	6	143,776,945	144,730,497	2236
Bcat1	104861	6	144,942,355	145,024,704	2238
Itpr2	99418	6	146,056,821	146,450,745	2239 - 2241
Ppfibp1	1914783	6	146,837,009	146,980,547	2242
Ccdc91	1914265	6	147,424,393	147,581,134	2243, 2244
Gm2384	3780552	6	147,591,561	147,626,133	2245
Lilrb3	894311	7	3,663,011	3,671,993	2249
Gm15448	3705216	7	3,768,383	3,777,289	2251
Pira2	1195970	7	3,788,659	3,796,653	2252
Pira4	1195988	7	3,789,755	3,849,722	2252 - 2254
Pira5	1195975	7	3,789,755	3,849,722	2252 - 2254
Vmn1r60	3645244	7	5,490,908	5,498,753	2262
Vmn1r64	3033480	7	5,835,182	5,836,144	2264
Zfp78	107783	7	6,316,043	6,335,315	2266
Zim2	1923887	7	6,604,459	6,615,117	2267
Zfp772	2385265	7	7,154,833	7,162,709	2270
Vmn2r29	1923479	7	7,166,473	7,192,861	2271, 2272
Vmn2r30	1316729	7	7,264,434	7,290,242	2273 - 2275
Gm3554	3781731	7	7,312,678	7,315,071	2276
Gm3912	3782085	7	7,315,609	7,327,335	2276
Vmn2r31	3757688	7	7,336,741	7,349,472	2276
Vmn2r32	1316696	7	7,415,738	7,432,800	2276
Vmn2r33	3757694	7	7,503,402	7,519,537	2278
Vmn2r34	3757700	7	7,623,988	7,642,224	2282
Vmn2r35	3646200	7	7,738,588	7,772,618	2288
Vmn2r36	3757866	7	7,828,805	7,855,288	2290, 2291
Gm3956	3782130	7	8,062,819	8,089,272	2298 - 2301
Gm3991	3782165	7	8,557,157	8,583,640	2304 - 2306
Vmn2r37	1316711	7	8,954,257	8,972,355	2320
Gm5583	3646061	7	9,046,767	9,061,104	2325
Vmn2r38	3757869	7	9,079,992	9,103,276	2327
Vmn2r39	3704108	7	9,147,119	9,163,358	2329
Vmn2r40	3757872	7	9,246,337	9,270,665	2329, 2330
Gm3644	3781820	7	9,327,233	9,329,627	2332
Vmn2r45	3757883	7	9,638,195	9,656,739	2336
Vmn2r44	3643088	7	9,744,040	9,760,130	2339
Gm7696	3649133	7	9,769,212	9,776,255	2339
Gm10303	3642900	7	9,774,107	9,820,158	2340
Gm3654	3781830	7	9,835,626	9,844,689	2342
Vmn2r43	3037819	7	9,866,727	9,882,979	2342

Gene symbol	MGI ID	Chr	Gene start	Gene end	CNV No.
Vmn2r42	1316666	7	9,927,007	9,944,065	2342
Vmn2r41	3757876	7	9,965,677	9,989,982	2343, 2344
Gm4082	3782257	7	10,034,293	10,041,283	2347
Gm3670	3781846	7	10,046,523	10,048,914	2347
Vmn2r47	3757929	7	10,401,183	10,426,790	2355 - 2357
2810047C21Rik1	1919966	7	10,455,317	10,462,312	2359
Vmn2r48	3647749	7	10,512,973	10,538,925	2362 - 2364
Vmn2r49	3757933	7	10,560,652	10,577,604	2364
Vmn2r50	3643086	7	10,622,317	10,635,663	2365
Nlrp4b	3056570	7	11,273,142	11,315,517	2372
Zscan4e	3643613	7	11,891,727	11,896,031	2388
Vmn1r72	2182256	7	12,254,948	12,255,868	2403
1810019N24Rik	1916336	7	13,533,940	13,547,131	2422
Vmn1r90	3612342	7	15,146,518	15,208,415	2423
Gm8040	3647077	7	15,385,143	15,396,199	2433, 2434
Gm9545	3779955	7	15,550,579	15,572,398	2449, 2450
Gm3959	3782133	7	15,591,759	15,593,370	2452
Gm8072	3643193	7	15,641,545	15,643,153	2455
Gm3968	3782142	7	15,709,499	15,715,462	2460
Gm3977	3782150	7	15,724,895	15,726,833	2461
Gm3980	3782153	7	15,736,263	15,738,201	2462
Gm3981	3782154	7	15,747,593	15,749,531	2462
Gm3984	3782157	7	15,758,674	15,760,612	2462
Gm3987	3782160	7	15,770,015	15,771,953	2462
Gm3989	3782163	7	15,781,328	15,783,224	2462
Gm3994	3782168	7	15,792,659	15,794,597	2462
Gm3996	3782170	7	15,803,989	15,805,927	2462
Gm3998	3782172	7	15,815,293	15,817,231	2462
Gm4001	3782175	7	15,826,621	15,828,559	2462
Gm4003	3782177	7	15,837,960	15,839,898	2462
Gm4016	3782190	7	16,076,788	16,088,118	2471, 2472
Obox3	2149032	7	16,210,740	16,213,211	2476
Gm4023	3782197	7	16,276,998	16,278,931	2478
Crxos1	2451355	7	16,467,966	16,489,358	2480
Gpr77	2442013	7	16,820,101	16,827,667	2481
Ceacam9	1347247	7	17,307,278	17,311,459	2482
Gm5155	3647191	7	18,457,116	18,504,373	2494
Psg23	1891355	7	19,191,809	19,201,850	2508
Ccdc61	2685005	7	19,476,232	19,495,764	2512
2210010C17Rik	1917330	7	20,522,654	20,536,092	2513
Ceacam20	1918851	7	20,550,780	20,576,462	2514
Nlrp9b	2675377	7	20,593,372	20,658,655	2515

Gene symbol	MGI ID	Chr	Gene start	Gene end	CNV No.
Vmn1r91	3649070	7	20,685,282	20,687,430	2517
Gm6164	3647652	7	20,790,033	20,792,784	2518
Vmn1r109	3782702	7	21,336,572	21,358,986	2521
Vmn1r121	3648662	7	21,882,495	21,884,610	2528
Vmn1r122	3647341	7	21,918,230	21,920,358	2530
Vmn1r123	2686292	7	21,945,268	21,948,127	2532
Vmn1r124	3779910	7	22,044,713	22,045,636	2537
Vmn1r125	3704112	7	22,057,198	22,058,121	2537
Vmn1r132	3647009	7	22,379,150	22,400,150	2542, 2543
Vmn1r157	3646139	7	23,545,352	23,547,771	2559
Vmn1r158	3646143	7	23,574,878	23,577,983	2561
Vmn1r159	3642763	7	23,627,707	23,628,624	2563
Vmn1r160	3779564	7	23,654,307	23,657,166	2564
Nlrp4e	3056600	7	24,086,294	24,147,289	2575, 2576
Nlrp5	1345193	7	24,170,908	24,226,941	2577
Zfp94	107610	7	25,086,723	25,101,685	2581
Chst8	1916197	7	35,459,487	35,597,730	2584
1600014C10Rik	1919494	7	38,968,835	38,979,989	2585
Pop4	1913411	7	39,047,839	39,056,367	2587
Gm6605	3644762	7	39,231,315	39,237,190	2595
Gm5591	3648692	7	39,303,158	39,313,212	2596
Gm4454	3782638	7	39,351,859	39,356,187	2598
Gm1988	3780157	7	46,425,170	46,435,208	2601
Gm6124	3779556	7	46,474,468	46,480,344	2601
Gm16387	3646111	7	46,511,994	46,519,904	2601
Gm6833	3645553	7	46,562,898	46,572,951	2603, 2604
Gm9271	3646449	7	46,617,645	46,623,502	2608
Gm6866	3646160	7	48,465,535	48,474,629	2618
Gm6871	3643456	7	48,792,732	48,803,387	2625
Siglece	1932475	7	50,906,442	50,915,515	2633
Aldh16a1	1916998	7	52,396,054	52,409,954	2638
Nell1	2443902	7	57,230,234	58,120,625	2642 - 2645
Gabrg3	95624	7	63,971,835	64,642,558	2648
Gm7339	3779732	7	67,012,079	67,039,437	2652
Pcsk6	102897	7	73,007,099	73,195,220	2654
Lrrk1	2142227	7	73,403,631	73,533,236	2655
Klhl25	2668031	7	82,993,283	83,012,377	2661
Agbl1	3646469	7	83,462,958	83,911,494	2665 - 2669
Ntrk3	97385	7	85,337,248	85,723,294	2677
Acan	99602	7	86,198,369	86,259,985	2678
P2ry2	105107	7	108,145,086	108,160,505	2679
Stim1	107476	7	109,416,338	109,585,374	2681, 2682

Gene symbol	MGI ID	Chr	Gene start	Gene end	CNV No.
Rrm1	98180	7	109,590,381	109,617,440	2683
Olfr543	3030377	7	109,625,372	109,626,382	2683
Olfr559	3030393	7	109,872,046	109,873,002	2690, 2691
Olfr564	3030398	7	109,951,994	109,952,987	2694
Dub2a	3051372	7	110,398,251	110,401,019	2709
Olfr597	3030431	7	110,468,915	110,469,874	2713
Gm5736	3645277	7	110,987,659	110,988,941	2729
Hbb-y	96027	7	111,000,259	111,001,754	2730
Olfr635	3030469	7	111,127,690	111,128,655	2738
Olfr639	3030473	7	111,160,264	111,161,214	2739
E030002O03Rik	2443346	7	111,301,527	111,313,345	2750
Trim34-1	2137359	7	111,392,973	111,489,207	2752 - 2756
Trim5	3646853	7	111,411,900	111,436,608	2753
Gm15134	3805550	7	111,448,744	111,485,423	2754, 2755
Trim12-2	4821183	7	111,487,268	111,501,876	2756
Trim30-1	4821256	7	111,503,896	111,518,398	2757
Trim79	3035181	7	111,618,528	111,656,363	2758 - 2761
Dub3	107697	7	111,916,674	111,921,467	2775
Cnga4	2664099	7	112,553,082	112,557,252	2781
Gm4070	3782245	7	113,043,632	113,102,484	2784, 2785
Gm1966	3584360	7	113,744,757	113,770,578	2798
Gm10081	3647188	7	114,247,824	114,250,373	2807
Syt9	1926373	7	114,514,242	114,692,170	2810 - 2812
Gm4199	3782376	7	115,236,698	115,238,099	2817
Olfr482	3030316	7	115,238,111	115,239,082	2817
Olfr486	3030320	7	115,315,312	115,316,256	2822
Olfr487	3030321	7	115,355,097	115,356,041	2822
Olfr503	3030337	7	115,688,041	115,689,012	2842
Eif3f	1913335	7	116,077,931	116,086,465	2850
Stk33	2152419	7	116,422,737	116,582,595	2853
Scube2	1928765	7	116,942,204	117,009,193	2854, 2855
Phxr5	104521	7	116,988,530	116,990,548	2855
Sbf2	1921831	7	117,452,860	117,758,436	2858 - 2860
Mrvi1	1338023	7	118,011,780	118,125,975	2861
Spon1	2385287	7	120,909,512	121,186,884	2863
Jmjd5	1924285	7	132,588,190	132,605,779	2876
Gsg1l	2685483	7	133,024,217	133,225,925	2881
Gdpd3	1915866	7	133,909,928	133,919,157	2882
Myst1	1915023	7	135,056,031	135,069,276	2883
Itgam	96607	7	135,206,154	135,271,674	2884
Fgfr2	95523	7	137,305,965	140,315,033	2886
Fank1	1914180	7	140,968,544	141,073,215	2887

Gene symbol	MGI ID	Chr	Gene start	Gene end	CNV No.
Dock1	2429765	7	141,862,370	142,365,322	2888, 2889
Inpp5a	2686961	7	146,575,008	146,765,551	2894
Cln8	1349447	8	14,881,335	14,901,720	2895
Rab11fip1	1923017	8	28,249,245	28,285,120	2906
Tex24	1921539	8	28,454,866	28,459,659	2912
Gm3985	3782158	8	33,998,977	34,060,498	2925
Gm6876	3647691	8	34,125,161	34,182,427	2926
Wrn	109635	8	34,346,172	34,495,969	2931, 2932
Rbpms	1334446	8	34,893,116	35,040,313	2936, 2937
Gm2745	3780914	8	56,197,122	56,198,699	2986
Gm2749	3780918	8	56,200,420	56,201,997	2986
Gm5927	3644093	8	56,203,724	56,205,648	2986
Gm10674	3644111	8	56,208,108	56,208,614	2986
Gm1153	2685999	8	57,977,384	57,978,904	2987
Gm7373	3645936	8	57,996,505	57,998,072	2988
Galntl6	1913581	8	60,906,291	61,390,424	2993 - 2999
36951	1920175	8	68,141,799	68,995,536	3032 - 3039
D130040H23Rik	2444324	8	71,794,979	71,827,274	3041
Gatad2a	2384585	8	72,432,369	72,520,263	3045
Olfr372	3030206	8	74,581,581	74,582,506	3050
Large	1342270	8	75,338,498	75,877,439	3056, 3057
Nfix	97311	8	87,223,775	87,324,243	3059
Phkb	97578	8	88,364,858	88,585,275	3064
Fto	1347093	8	93,837,431	94,192,338	3072, 3073
Ces1	88378	8	95,826,268	95,861,207	3075
Tmco7	2142786	8	109,206,968	109,375,339	3078, 3079
Pkd1l3	2664670	8	112,138,417	112,196,492	3081
Phlpp2	2444928	8	112,392,442	112,468,571	3083
2310061C15Rik	1913781	8	119,412,585	119,445,355	3087, 3088
Atmin	2682328	8	119,467,308	119,484,344	3089
Pkd1l2	2664668	8	119,519,579	119,606,349	3090 - 3092
Cdh13	99551	8	120,807,633	121,848,821	3093
Galnt2	894694	8	122,434,741	126,869,624	3094 - 3096
Gm11168	3779420	9	3,004,457	3,005,837	3102
Gm10721	3641688	9	3,013,170	3,014,344	3102
Gm10720	3641687	9	3,015,654	3,017,210	3102
Gm10719	3641690	9	3,017,408	3,019,022	3102
Gm11167	3779419	9	3,020,108	3,021,593	3102
Gm10718	3642028	9	3,023,547	3,025,218	3102
Gm10717	3642031	9	3,025,417	3,026,387	3102
Gm10716	3641972	9	3,030,099	3,031,071	3102
Gm10106	3642872	9	3,032,085	3,032,822	3102



Gene symbol	MGI ID	Chr	Gene start	Gene end	CNV No.
Gm10715	3642376	9	3,037,111	3,038,316	3102
Fat3	2444314	9	15,714,649	16,182,675	3105
Olfr850	3030684	9	19,281,745	19,282,692	3130
Npsr1	2441738	9	23,902,440	24,120,842	3146 - 3151
Gm10701	3642532	9	24,146,101	24,223,153	3152
Dpy19l1	1915685	9	24,216,220	24,307,584	3153
Dpy19l2	2444662	9	24,361,497	24,500,737	3154, 3155
Tbx20	1888496	9	24,527,648	24,578,746	3157
Pknox2	2445415	9	36,698,570	36,954,899	3166
Gm3898	3809204	9	43,629,030	43,851,847	3169
Phldb1	2143230	9	44,494,387	44,543,281	3172
Tipin	1921571	9	64,129,414	64,152,599	3174
Megf11	1920951	9	64,233,433	64,557,012	3175 - 3177
Tln2	1917799	9	67,065,943	67,387,422	3178
Gm2679	3780848	9	67,407,144	67,547,969	3179
Myo5a	105976	9	74,918,822	75,071,495	3183
Mrap2	3609239	9	87,039,141	87,078,880	3196
Clstn2	1929897	9	97,344,814	97,933,600	3213
Esyt3	1098699	9	99,210,386	99,258,949	3214
Stag1	1098658	9	100,498,217	100,858,964	3220, 3221
Ppp2r3a	2442104	9	101,007,617	101,115,498	3224
Ephb1	1096337	9	101,824,458	102,257,023	3230, 3231
9630041A04Rik	3045242	9	101,840,811	101,845,549	3230
Nek11	2442276	9	105,064,797	105,297,854	3232
Atp2c1	1889008	9	105,313,692	105,397,429	3233
Rnf123	2148796	9	107,953,865	107,985,677	3239
Amigo3	2444854	9	107,955,490	107,958,032	3239
Ltf	96837	9	110,921,796	110,945,270	3240
Dclk3	3039580	9	111,341,585	111,392,112	3241
4930545L08Rik	1925278	9	111,814,815	111,821,170	3242
Glb1	88151	9	114,310,237	114,383,495	3252
Gm2315	3780486	9	115,256,593	115,303,644	3253
Gadl1	1920998	9	115,818,573	115,983,465	3254
Tgfbr2	98729	9	115,996,825	116,084,407	3255
Rbms3	2444477	9	116,486,714	117,161,261	3259, 3260
Zcwpw2	1921888	9	117,833,430	117,923,278	3262
Syne1	1927152	10	4,795,849	5,326,338	3274
Ust	2442406	10	7,924,551	8,238,623	3277
Utrn	104631	10	12,101,986	12,581,533	3279
Pex3	1929646	10	13,243,653	13,272,945	3281
Txlnb	2671945	10	17,516,086	17,565,469	3297, 3298
D10Bwg1379e	106387	10	18,307,817	18,463,564	3301

Gene symbol	MGI ID	Chr	Gene start	Gene end	CNV No.
Il20ra	3605069	10	19,432,393	19,479,859	3303
Ahi1	87971	10	20,672,470	20,800,235	3305
Gm2503	3780670	10	21,463,673	21,466,812	3313
4930444G20Rik	2149738	10	21,786,398	21,787,885	3318
E030030I06Rik	2442914	10	21,833,938	21,868,629	3320 - 3323
Raet1c	109431	10	21,878,375	22,093,945	3324 - 3332
Gm2555	3780723	10	21,936,313	21,938,830	3328
H60b	3649078	10	21,993,152	22,008,655	3331
Raet1d	1861032	10	22,082,077	22,093,945	3332
Gm10825	3704351	10	22,124,487	22,124,816	3334
Slc2a12	3052471	10	22,364,817	22,424,091	3336 - 3338
Akap7	1859150	10	24,889,928	25,018,969	3342
Epb4.1l2	103009	10	25,161,393	25,232,886	3346
Grik2	95815	10	48,819,266	49,508,572	3360 - 3364
Gm6996	3644596	10	52,248,326	52,249,846	3366
Dux	3703875	10	57,685,720	57,686,274	3367
Ctnna3	2661445	10	62,892,846	64,466,415	3369 - 3373
Rtkn2	2158417	10	67,442,318	67,522,488	3388
Bicc1	1933388	10	70,385,580	70,622,448	3389 - 3391
Pcdh15	1891428	10	72,562,090	74,112,482	3399
Gm6763	3643573	10	103,605,569	103,608,038	3428
Gm8764	3643666	10	103,614,079	103,616,547	3428
Gm8766	3643661	10	103,622,588	103,625,055	3428
Gm4340	3782524	10	103,631,097	103,633,576	3428
Acss3	2685720	10	106,402,138	106,560,724	3443
Ptprq	1096349	10	106,954,416	107,157,083	3444
Gm6924	3647600	10	107,199,366	107,349,211	3445
Trhde	2384311	10	113,835,879	114,239,363	3448
Tph2	2651811	10	114,515,697	114,622,078	3451, 3452
Lgr5	1341817	10	114,887,367	115,024,836	3453
Mdm1	96951	10	117,578,888	117,606,053	3460, 3461
Iltifb	2151139	10	117,726,685	117,732,094	3469
D930020B18Rik	2442001	10	121,078,644	121,129,948	3472
Ppm1h	2442087	10	122,115,818	122,382,851	3473
Usp15	101857	10	122,550,300	122,633,979	3475
Fam19a2	2143691	10	122,701,132	123,178,032	3476 - 3479
Gm4154	3782330	10	124,924,562	124,927,295	3486
Xrcc6bp1	1916984	10	126,305,486	126,338,389	3492
Olf784	3030618	10	128,824,691	128,825,650	3494
Sfi1	1926137	11	3,031,853	3,093,466	3501
Hormad2	1923078	11	4,245,817	4,341,108	3502, 3503
Ascc2	1922702	11	4,537,750	4,585,702	3505

Gene symbol	MGI ID	Chr	Gene start	Gene end	CNV No.
Sun3	3041199	11	8,916,057	8,948,994	3511
Abca13	2388707	11	9,091,945	9,584,262	3512
Cobl	105056	11	12,136,679	12,364,862	3514, 3515
Ehbp1	2667252	11	21,905,831	22,242,295	3527, 3528
B3gnt2	1889505	11	22,679,269	22,760,488	3533
Commd1	109474	11	22,734,744	22,882,382	3533
Gm12665	3652165	11	24,803,983	24,826,058	3540
5730522E02Rik	1917876	11	25,502,763	26,110,763	3542, 3542
Fanc1	1914280	11	26,286,135	26,371,876	3544
Vrk2	1917172	11	26,371,322	26,493,999	3545
Acyp2	1922822	11	30,405,991	30,549,587	3568
Slit3	1315202	11	34,934,726	35,522,009	3573, 3574
Odz2	1345184	11	35,820,158	37,049,466	3575
Gm12128	3651507	11	37,472,491	37,486,668	3578
Sgcd	1346525	11	46,709,755	47,802,471	3595
Olfr56	1333785	11	48,864,235	48,948,889	3598
Olfr1388	3031222	11	49,257,355	49,258,290	3602
Cdkl3	2388268	11	51,817,723	51,903,286	3606
Acsl6	894291	11	54,117,300	54,178,258	3608
Gria1	95808	11	56,824,889	57,143,746	3609
Olfr311	3030145	11	58,654,618	58,655,544	3613
Wnt9a	2446084	11	59,120,430	59,147,054	3614
Pemt	104535	11	59,784,116	59,859,991	3617
Slc5a10	1926089	11	61,486,283	61,534,328	3625
Fam83g	1916890	11	61,497,593	61,523,453	3625
Ulk2	1352758	11	61,589,151	61,668,575	3626
Ncor1	1349717	11	62,129,928	62,272,043	3628
Zfp286	2384758	11	62,566,879	62,602,964	3631
Rap1gap2	3028623	11	74,196,858	74,403,688	3651
Sgsm2	2144695	11	74,662,763	74,710,562	3652, 3653
Myo1d	107728	11	80,295,628	80,593,527	3655
Car10	1919855	11	92,959,342	93,463,059	3670
Zfp652	2442221	11	95,573,987	95,696,429	3673
Plcd3	107451	11	102,931,618	102,962,972	3675
Ccdc57	1918526	11	120,687,843	120,794,186	3685
Foxk2	1916087	11	121,121,304	121,171,210	3687, 3688
Wdr45l	1914090	11	121,188,538	121,215,759	3690
Tbcd	1919686	11	121,313,263	121,478,478	3693, 3694
Hpcal1	1855689	12	17,697,620	17,798,732	3729
Gm10480	3642435	12	18,223,364	18,224,634	3731
Gm9590	3779999	12	18,394,561	18,413,667	3735
5730507C01Rik	1917882	12	18,521,544	18,540,997	3739

Gene symbol	MGI ID	Chr	Gene start	Gene end	CNV No.
Gm3944	3782118	12	18,859,727	18,876,660	3755, 3756
Gm9292	3647448	12	22,811,251	22,888,999	3803
Sntg2	1919541	12	30,859,347	31,058,240	3807
Cog5	2145130	12	32,339,734	32,622,495	3808
Gm4511	3782696	12	33,281,577	33,285,361	3811
Cdhr3	1916014	12	33,718,661	33,777,740	3812
Bzw2	1914162	12	36,818,849	36,883,368	3825
Prkd1	99879	12	51,442,708	51,750,085	3828
Slc25a21	2445059	12	57,813,621	58,298,459	3834
Ttc6	2684915	12	58,797,921	58,838,785	3835, 3836
Lrfn5	2144814	12	62,624,137	62,958,915	3854, 3855
Mdga2	2444706	12	67,572,169	68,322,190	3897, 3898
Prkch	97600	12	74,685,784	74,879,172	3912
Rhoj	1931551	12	76,409,309	76,502,443	3914
Rad51l1	1099436	12	80,398,338	80,609,643	3916
Dcaf5	2444785	12	81,437,669	81,537,526	3918
Nrxn3	1096389	12	90,191,843	91,571,500	3921 - 3925
Tshr	98849	12	92,639,491	92,778,318	3926
Gtf2a1	1933277	12	92,797,155	92,828,927	3927
Kcnk10	1919508	12	99,672,204	99,816,150	3960
Ttc8	1923510	12	100,158,784	100,221,448	3961
Catsperb	2443988	12	102,642,892	102,864,160	3962
Lgmn	1330838	12	103,632,294	103,678,023	3964
4831426I19Rik	2442408	12	106,168,159	106,248,019	3968
Evl	1194884	12	109,792,930	109,926,723	3969
Akt1	87986	12	113,892,032	113,913,095	3971
Gm16948	4439872	12	114,849,395	114,849,828	3983
Gm16592	4439516	12	114,940,335	114,940,789	3990
Gm16698	4439622	12	115,134,619	115,135,157	3999
Gm16996	4439920	12	115,170,170	115,170,588	4001
Gm16612	4439536	12	115,186,493	115,186,943	4001
Gm16683	4439607	12	115,232,680	115,233,109	4005
Gm16999	4439923	12	115,272,016	115,272,487	4007
Gm16697	4439621	12	115,821,780	115,822,213	4025
Gm16900	4439824	12	116,597,351	116,597,783	4056
Gm16746	4439670	12	117,100,078	117,100,511	4081
Gm16812	4439736	12	117,106,984	117,107,413	4081
Vipr2	107166	12	117,316,264	117,383,841	4090
Wdr60	2445085	12	117,445,523	117,501,498	4091
Ptprn2	107418	12	117,724,306	118,515,266	4093 - 4101
Dnahc11	1100864	12	119,116,456	119,437,516	4106
Abcb5	1924956	12	120,102,826	120,204,894	4109

Gene symbol	MGI ID	Chr	Gene start	Gene end	CNV No.
Gm6768	3648259	12	120,499,402	120,502,745	4112
Adarb2	2151118	13	8,202,112	8,767,993	4148 - 4155
Gm8372	3644813	13	8,452,489	8,454,561	4151
Larp4b	106330	13	9,093,151	9,172,332	4159
Dip2c	1920179	13	9,276,228	9,668,171	4160
Chrm3	88398	13	9,875,859	10,360,049	4163 - 4165
Lyst	107448	13	13,682,676	13,869,707	4172
Hecw1	2444115	13	14,318,705	14,615,495	4173
Gli3	95729	13	15,555,068	15,821,859	4180
5033411D12Rik	1923221	13	16,949,689	17,786,566	4195 - 4203
Cdk13	1916812	13	17,807,568	17,896,836	4204
Rala	1927243	13	17,972,409	18,036,073	4206
Vmn1r188	2182259	13	22,179,747	22,180,673	4212
2610307P16Rik	1919768	13	28,551,903	28,977,489	4219
F13a1	1921395	13	36,959,056	37,141,073	4223
Sykb	99515	13	52,678,542	52,744,161	4234
Smad5	1328787	13	56,804,371	56,843,738	4242, 4243
Spock1	105371	13	57,527,455	58,009,636	4248 - 4250
Ntrk2	97384	13	58,907,957	59,231,337	4251
Cast	1098236	13	74,831,734	74,945,369	4270
Rhobtb3	1920546	13	76,006,985	76,081,373	4276
Spata9	1922821	13	76,105,187	76,136,416	4277
Mctp1	1926021	13	76,521,983	77,171,071	4278
Mef2c	99458	13	83,643,194	83,802,927	4279
Gm4076	3782251	13	85,266,604	85,294,721	4282, 4283
Rasa1	97860	13	85,354,385	85,428,634	4284
Edil3	1329025	13	88,961,077	89,462,828	4319
Gm4117	3782293	13	89,879,065	90,026,771	4323 - 4325
Xrcc4	1333799	13	89,913,632	90,229,213	4323 - 4325
Atg10	1914045	13	91,074,954	91,363,592	4335, 4336
Ssbp2	1914220	13	91,599,888	91,843,034	4337, 4338
Serinc5	2444223	13	93,381,093	93,481,902	4340
Iqgap2	2449975	13	96,397,132	96,661,877	4343
Sv2c	1922459	13	96,729,398	96,902,532	4344
Naip1	1298223	13	101,177,749	101,216,466	4360, 4361
Gm9858	3809036	13	101,185,515	101,185,930	4360
Mast4	1918885	13	103,524,891	104,124,541	4365
ErbB2ip	1890169	13	104,608,867	104,710,594	4369
Gm2590	3780758	13	104,688,065	104,691,410	4369
Zswim6	1914513	13	108,514,697	108,680,342	4383
Depdc1b	2145425	13	109,106,531	109,179,751	4386
Pde4d	99555	13	109,240,142	110,743,669	4389 - 4393

Gene symbol	MGI ID	Chr	Gene start	Gene end	CNV No.
Pxk	1289230	14	8,930,757	8,997,624	4397
4930452B06Rik	1926154	14	9,263,706	9,498,754	4399, 4400
Fhit	1277947	14	10,382,606	11,994,549	4413 - 4423
Ptprg	97814	14	12,386,046	13,074,555	4424
Gm5087	3643653	14	13,989,902	14,117,152	4429
Synpr	1919253	14	14,117,294	14,447,973	4430 - 4433
Gm281	2685127	14	14,647,463	14,746,992	4434
Atxn7	2179277	14	14,845,005	14,936,574	4435
Nek10	2685128	14	15,653,279	15,839,445	4437
Rarb	97857	14	17,263,353	17,407,724	4442
Thrb	98743	14	18,493,474	18,870,600	4471 - 4475
Ube2e1	107411	14	19,115,236	19,164,373	4486
Ube2e2	2384997	14	19,406,091	19,726,781	4494 - 4498
Myst4	1858746	14	22,319,076	22,491,354	4502
1700112E06Rik	1923883	14	22,838,934	23,875,307	4505, 4506
Erc2	1098749	14	28,435,628	29,291,723	4508, 4509
Cacna2d3	1338890	14	29,718,133	30,535,050	4512, 4513
Sfmbt1	1859609	14	31,528,035	31,635,899	4515, 4516
Phf11	1918441	14	59,895,750	59,916,359	4527 - 4529
Gm4902	3645789	14	59,939,808	59,960,188	4531, 4532
D14Ertd668e	1277133	14	59,966,244	59,984,307	4532, 4533
Mipep	1917728	14	61,403,425	61,522,447	4537 - 4539
Kpna3	1100863	14	61,984,023	62,058,711	4540
Defb47	3644478	14	63,616,939	63,619,903	4542
Mtmr9	2442842	14	64,142,447	64,162,790	4547
Slc39a14	2384851	14	70,703,276	70,751,232	4550
Xpo7	1929705	14	71,054,053	71,166,435	4551
Fndc3a	1196463	14	72,937,753	73,109,810	4561
2900040C04Rik	1920143	14	76,651,264	76,652,137	4565
Dgkh	2444188	14	78,969,416	79,124,896	4569
1300010F03Rik	1919008	14	79,248,991	79,602,117	4572, 4573
Pcdh9	1306801	14	93,414,731	94,287,951	4593 - 4596
Gm4385	3782570	14	94,500,141	94,665,105	4599
6720463M24Rik	1924994	14	99,445,596	99,473,326	4656
Pibf1	1261910	14	99,498,652	99,653,712	4657
Scel	1891228	14	103,912,558	104,012,563	4670, 4671
Gm4671	3782852	14	114,819,594	114,823,420	4694
Gpc5	1194894	14	115,491,848	116,923,659	4700 - 4702
Gpc6	1346322	14	117,324,519	118,378,751	4703 - 4705
Ghr	95708	15	3,267,760	3,533,492	4707
Wdr70	1921020	15	7,823,055	8,049,209	4715
Nipbl	1913976	15	8,241,225	8,394,463	4716

Gene symbol	MGI ID	Chr	Gene start	Gene end	CNV No.
Ugt3a1	2146055	15	9,209,584	9,244,787	4719 - 4721
Gm2556	3780724	15	14,728,978	14,978,385	4724
Cdh10	107436	15	18,750,084	18,943,989	4725
Gm6267	3779581	15	19,440,077	19,648,475	4743 - 4747
Cdh12	109503	15	21,041,207	21,519,288	4787 - 4792
40603	3608327	15	26,238,803	26,339,331	4817
Fbxl7	3052506	15	26,470,214	26,825,319	4818 - 4820
Ctnnd2	1195966	15	30,102,348	30,959,066	4830
Dap	1918190	15	31,154,180	31,204,090	4833
Laptm4b	1890494	15	34,167,919	34,214,050	4854
Matn2	109613	15	34,236,436	34,365,997	4855
Stk3	1928487	15	34,805,251	35,085,561	4861 - 4865
Vps13b	1916380	15	35,301,304	35,859,849	4872 - 4882
Gm7968	3644983	15	35,519,069	35,521,393	4877
Spag1	1349387	15	36,109,123	36,165,365	4886 - 4888
Trps1	1927616	15	50,491,988	50,721,587	4911
Colec10	3606482	15	54,242,329	54,297,913	4916
Gm9920	3642228	15	54,931,472	54,945,232	4920
Sntb1	101781	15	55,470,398	55,738,504	4921
BC026439	2446114	15	57,075,322	57,309,180	4931, 4932
Fer1l6	3645398	15	58,341,603	58,496,647	4934, 4935
Pvt1	97824	15	61,869,602	62,081,079	4940
Eppk1	2386306	15	75,932,792	75,950,625	4942
Apol7b	3583950	15	77,252,640	77,277,922	4945
Apol7e	3704456	15	77,529,319	77,549,718	4952 - 4954
Apol8	2444921	15	77,578,229	77,585,678	4955
Myh9	107717	15	77,591,017	77,672,605	4956
Slc25a17	1342248	15	81,149,351	81,191,195	4957
Efcab6	1924877	15	83,697,142	83,895,809	4960
Ppp6r2	1918724	15	89,041,990	89,116,692	4964
Slc2a13	2146030	15	91,098,127	91,403,692	4969
Cntn1	105980	15	91,881,596	92,172,384	4970 - 4973
Pdzrn4	3056996	15	92,427,557	92,601,321	4976
Tmem117	2444580	15	94,459,616	94,926,528	4979 - 4983
Gm6961	3644546	15	95,577,674	95,603,734	4985
Ano6	2145890	15	95,621,274	95,805,180	4986
Olfr288	3030122	15	98,016,446	98,025,973	4988, 4989
Gm4563	3782747	15	103,437,732	103,440,060	4992
Gm3707	3781883	16	3,098,752	3,108,551	4994
1600021P15Rik	1917028	16	28,826,262	28,929,784	5007
Pdia5	1919849	16	35,397,399	35,490,959	5008, 5009
Sema5b	107555	16	35,541,231	35,664,818	5014, 5015

Gene symbol	MGI ID	Chr	Gene start	Gene end	CNV No.
Gm10809	3642225	16	42,725,815	42,875,875	5024
Drd3	94925	16	43,762,355	43,822,952	5025
Gm5486	3647871	16	49,923,415	49,955,152	5029
Bbx	1917758	16	50,191,957	50,432,503	5033 - 5035
Gm4439	3782622	16	54,204,783	54,212,403	5052
Gm6958	3779643	16	55,961,428	55,965,167	5069
Abi3bp	2444583	16	56,478,013	56,689,430	5071, 5072
Htr1f	99842	16	64,924,555	65,105,680	5074
Cadm2	2442722	16	66,655,666	67,621,153	5079 - 5083
4930578N18Rik	1925465	16	76,122,858	76,156,331	5086, 5087
Usp25	1353655	16	77,014,314	77,117,024	5093
Cxadr	1201679	16	78,301,741	78,360,030	5099
Gm16509	3641946	16	80,947,590	80,950,214	5121
4932438H23Rik	1921637	16	91,054,180	91,095,367	5147
Gm10326	3714485	17	7,528,995	7,550,323	5157
Gm9992	3712668	17	7,568,047	7,583,639	5158, 5159
5830477G23Rik	1923366	17	7,603,874	7,610,959	5161
Gpr31c	1354371	17	13,244,187	13,245,146	5167
Tcp10b	98542	17	13,253,977	13,275,092	5167, 5168
Gm11166	3810119	17	13,289,545	13,291,338	5169
Unc93a	1933250	17	13,301,483	13,324,657	5170, 5171
Gm10512	3642173	17	13,397,908	13,399,077	5176
Smok2a	1351487	17	13,414,054	13,420,524	5176
Smok2b	3037705	17	13,421,718	13,430,055	5176
Gm9880	3711246	17	13,547,438	13,569,717	5178
2700054A10Rik	1919828	17	13,675,419	13,898,832	5183 - 5189
Tcte2	98641	17	13,675,419	13,898,832	5183 - 5189
Gm16051	3801836	17	13,702,893	13,704,059	5186
Smoc2	1929881	17	14,416,542	14,541,771	5193
BC018101	3052731	17	17,201,077	17,226,592	5205
Zfp97	105921	17	17,258,379	17,283,795	5206
Gm5165	3646034	17	17,330,403	17,343,357	5208
Lnpep	2387123	17	17,664,687	17,761,453	5213
Vmn2r96	3644514	17	18,701,778	18,753,278	5215
Vmn2r98	3647977	17	19,096,215	19,218,275	5221 - 5223
Vmn2r101	3648468	17	19,716,572	19,749,281	5225, 5226
Vmn2r102	3647786	17	19,766,304	19,831,712	5227
Vmn2r105	3646973	17	20,344,768	20,393,288	5229, 5230
Vmn1r235	2159636	17	21,397,391	21,399,827	5234
Zfp52	99199	17	21,672,503	21,699,565	5236
Gm4944	3643318	17	22,335,459	22,362,581	5242
Vmn2r111	3647034	17	22,696,025	22,708,020	5249



Gene symbol	MGI ID	Chr	Gene start	Gene end	CNV No.
Gm3950	3782124	17	22,715,867	22,722,316	5250
Vmn2r112	3644292	17	22,740,280	22,751,958	5253, 5254
Vmn2r113	3648972	17	23,080,151	23,095,781	5261
Vmn2r114	3648252	17	23,427,901	23,449,280	5276
Abca17	3625331	17	24,401,204	24,487,974	5279
Nudt3	1928484	17	27,716,327	27,760,410	5281, 5282
Zfand3	1096572	17	30,142,032	30,346,964	5283, 5284
Btbd9	1916625	17	30,357,046	30,667,310	5285, 5286
Gm9874	3642006	17	30,622,456	30,622,908	5285
Glo1	95742	17	30,729,806	30,749,539	5286
1700097N02Rik	1914772	17	30,759,394	30,762,030	5286
Dnahc8	107714	17	30,763,936	31,012,209	5286
Gm9937	3642051	17	31,011,751	31,012,146	5286
Glp1r	99571	17	31,038,812	31,073,455	5286
Gm10503	3642784	17	31,060,691	31,100,165	5286
Cbs	88285	17	31,749,568	31,774,144	5287
H2-T22	95956	17	36,175,352	36,179,692	5299
H2-T9	95965	17	36,175,352	36,179,692	5299
Gm6034	3646212	17	36,179,906	36,195,590	5299 - 5301
Gm11127	3779381	17	36,193,272	36,193,385	5301
C920025E04Rik	2442805	17	36,246,172	36,248,792	5305
H2-T10	95942	17	36,254,035	36,258,389	5306
Gm10500	3641966	17	36,258,775	36,265,692	5306
Gm10499	3702919	17	36,278,703	36,282,868	5307
Gm8909	3704134	17	36,301,918	36,305,467	5308
Gm318	2685164	17	36,533,966	36,535,604	5313
Gm6780	3779630	17	39,981,811	39,983,280	5325
Opn5	2662912	17	42,693,732	42,748,262	5336 - 5338
Gpr115	1925499	17	42,793,840	42,829,233	5339
Gm4368	3782553	17	43,671,865	43,680,564	5341
Cyp39a1	1927096	17	43,804,474	43,887,794	5342, 5343
Clic5	1917912	17	44,325,521	44,417,117	5347
Polh	1891457	17	46,308,942	46,339,574	5350
Taf8	1926879	17	47,624,999	47,639,236	5352
Bysl	1858419	17	47,738,186	47,748,167	5353
Med20	1929648	17	47,748,531	47,820,810	5354
Tcfef	103270	17	47,873,979	47,929,368	5355
Lrnf2	1917780	17	49,071,704	49,236,913	5359
Daam2	1923691	17	49,595,347	49,703,662	5362
Plcl2	1352756	17	50,648,742	50,827,795	5364
Gm4445	3782629	17	51,334,012	51,618,410	5365 - 5368
Kat2b	1343094	17	53,706,640	53,812,045	5374

Gene symbol	MGI ID	Chr	Gene start	Gene end	CNV No.
Pot1b	1920086	17	55,791,323	55,839,517	5398
Cntnap5c	3646013	17	57,908,993	58,549,765	5399
2610034M16Rik	1916489	17	59,018,231	59,130,798	5408
Dlgap1	1346065	17	70,318,413	71,170,753	5421, 5422
Fam179a	2443498	17	72,022,601	72,079,009	5423
Alk	103305	17	72,218,328	72,953,049	5424
Xdh	98973	17	74,233,248	74,299,522	5432
Yipf4	1915114	17	74,888,856	74,899,313	5435
Birc6	1276108	17	74,927,635	75,102,403	5437
Ttc27	1921446	17	75,117,090	75,262,909	5438, 5439
Ltbp1	109151	17	75,404,908	75,791,852	5440 - 5444
Dhx57	2147067	17	80,637,652	80,689,816	5466
Arhgef33	2685787	17	80,746,880	80,769,745	5468
Sos1	98354	17	80,793,092	80,879,793	5469
Map4k3	2154405	17	80,979,852	81,127,433	5471
Ston1	1924307	17	88,997,024	89,061,926	5478
Fshr	95583	17	89,384,292	89,600,015	5479 - 5482
Nrxn1	1096391	17	90,435,914	91,492,337	5483 - 5486
Gm4618	3782800	17	91,947,285	91,948,241	5490
Gm4623	3782805	17	93,373,516	93,376,142	5515
6030446N20Rik	2442435	18	12,139,812	12,279,989	5527 - 5529
Lama3	99909	18	12,570,050	12,741,172	5532
Fhod3	1925847	18	24,867,946	25,292,001	5540, 5541
Rit2	108054	18	31,133,143	31,476,944	5567 - 5569
Camk4	88258	18	33,099,010	33,346,580	5576, 5577
Pcdha1	2150982	18	37,089,939	37,347,311	5578
Pcdha2	2681880	18	37,098,972	37,347,311	5578
Pcdha3	2447313	18	37,105,861	37,347,311	5578
Pcdha4	1298406	18	37,112,343	37,347,311	5578
Pcdha5	1298371	18	37,120,094	37,347,311	5578
Pcdha6	1298367	18	37,127,285	37,347,311	5578
Pcdha7	1298369	18	37,133,578	37,347,311	5578
Prdm6	2684938	18	53,624,705	53,735,561	5583
Gramd3	1914815	18	56,591,786	56,663,446	5594
Fbn2	95490	18	58,168,277	58,369,580	5595
Fam38b	1918781	18	63,169,867	63,201,376	5598
Ccbe1	2445053	18	66,204,956	66,462,393	5602
Rab27b	1931295	18	70,138,785	70,301,259	5606
Dcc	94869	18	71,418,392	72,510,723	5609 - 5615
Smad4	894293	18	73,798,663	73,863,434	5640
Gm672	2685518	18	75,590,878	75,857,208	5641 - 5645
Zbtb7c	2443302	18	75,979,832	76,308,215	5646 - 5649

Gene symbol	MGI ID	Chr	Gene start	Gene end	CNV No.
Slc14a1	1351654	18	78,296,830	78,338,858	5656, 5657
Pqlc1	1914193	18	80,450,031	80,489,464	5658
Ctdp1	1926953	18	80,604,698	80,666,434	5660
Gm2167	3780337	18	80,692,556	80,727,131	5662 - 5664
Nfatc1	102469	18	80,802,944	80,909,797	5666
Atp9b	1354757	18	80,931,816	81,130,797	5668 - 5670
Socs6	1924885	18	88,834,616	89,096,873	5693, 5694
Dok6	3639495	18	89,470,474	89,938,920	5696 - 5701
Ms4a4d	1913857	19	11,611,291	11,632,957	5706
Ms4a6d	1916024	19	11,661,094	11,679,339	5707
Stx3	103077	19	11,849,609	11,893,893	5708
Gnaq	95776	19	16,207,321	16,461,943	5722
Gna14	95769	19	16,510,252	16,685,310	5723
Vps13a	2444304	19	16,691,164	16,855,417	5724
BC016495	2147434	19	18,706,440	18,726,684	5738
Trpm6	2675603	19	18,824,473	18,967,000	5740, 5741
Trpm3	2443101	19	22,213,609	23,064,374	5744 - 5747
Dock8	1921396	19	25,074,019	25,276,922	5749
1700048O14Rik	1920683	19	26,112,942	26,546,927	5750
Prkg1	108174	19	30,642,041	31,839,312	5754, 5755
Gm3773	3781947	19	35,470,644	35,674,415	5763 - 5767
A830019P07Rik	3028035	19	35,910,851	35,999,067	5772
Htr7	99841	19	36,033,224	36,131,850	5775
Abcc2	1352447	19	43,856,682	43,912,441	5780
Ccdc147	2685815	19	48,012,202	48,109,868	5785
Mxi1	97245	19	53,384,996	53,450,300	5806
Smndc1	1923729	19	53,453,704	53,465,063	5807
Rbm20	1920963	19	53,751,796	53,941,570	5809
Gm2015	3780184	X	26,202,257	26,212,991	5810, 5811
Dmrtc1c1	1918333	X	99,998,302	100,005,281	5820
Gm15155	3642241	X	152,059,284	152,780,430	5839
Gm3322	3781500	X	156,719,017	156,721,200	5841
Gm2948	3781126	X	162,243,110	162,253,436	5844
Mid1	1100537	X	166,123,131	166,428,730	5845
G530011O06Rik	3603513	X	166,412,975	166,416,849	5845