

Table S18: Protein coding genes in CNVs detected by JaxMDGA 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 JaxMDGA") 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.
Ogfrl1	1917405	1	23,373,263	23,390,014	1
Prim2	97758	1	33,510,659	33,726,600	2
Hmcn1	2685047	1	152,409,654	152,840,565	9
Npl	1921341	1	155,350,146	155,396,844	10
Ufc1	1913405	1	173,218,694	173,225,155	11
Scai	2443716	2	38,921,734	39,046,250	12
Gca	1918521	2	62,502,342	62,532,166	13
Zfp385b	2444734	2	77,248,691	77,657,696	14
Sirpb1a	2444824	3	15,371,819	15,426,504	21
Sirpb1b	3779828	3	15,495,754	15,575,065	21
Sirpb1c	3807521	3	15,695,145	15,748,528	21
Slc39a8	1914797	3	135,488,243	135,551,532	25
Emcn	1891716	3	137,004,031	137,095,149	26
Ptprd	97812	4	75,587,143	77,857,865	30, 31
Skint4	2444425	4	111,744,621	111,840,681	33
Skint3	3045331	4	111,904,850	111,973,073	33
Skint9	3045341	4	112,058,574	112,106,590	33
Skint6	3649262	4	112,908,844	112,959,568	34
Skint5	3650151	4	113,613,249	113,672,102	34
Skint11	2685415	4	113,835,989	113,917,633	35
Aldh4a1	2443883	4	139,178,781	139,205,605	36
Rbpj	96522	5	53,947,018	54,048,684	38
Gm3259	3781437	5	95,734,834	95,772,936	40
Gm7963	3643214	5	95,854,546	95,857,656	40
D5Erttd577e	1261918	5	95,885,825	95,914,583	40
C230055K05Rik	2441896	5	105,242,188	105,288,830	41
Sgsm1	107320	5	113,672,240	113,739,806	42
Nos1	97360	5	118,231,041	118,408,849	43
Denr	1915434	5	124,357,300	124,377,593	44
Foxp2	2148705	6	14,851,388	15,391,201	46
Slc13a1	1859937	6	24,038,295	24,118,092	48
Gm16637	4439561	6	68,581,957	68,582,424	51
Foxp1	1914004	6	98,875,332	99,216,526	52
Pdzrn3	1933157	6	101,099,603	101,327,891	53
Usp18	1344364	6	121,195,974	121,220,935	57
Lrmp	108424	6	145,064,173	145,123,454	60
Vmn1r72	2182256	7	12,254,948	12,255,868	61
Vmn1r78	2159646	7	12,737,813	12,738,754	63
V1rg10	2159654	7	12,761,542	12,762,462	63

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1600014C10Rik	1919494	7	38,968,835	38,979,989	64
Gm6605	3644762	7	39,231,315	39,237,190	65
Gm5591	3648692	7	39,303,158	39,313,212	65
Gm4454	3782638	7	39,351,859	39,356,187	65
Gm1988	3780157	7	46,425,170	46,435,208	65
Gm6124	3779556	7	46,474,468	46,480,344	65
Gm16387	3646111	7	46,511,994	46,519,904	65
Gm6833	3645553	7	46,562,898	46,572,951	65
Gm2128	3780298	7	48,410,845	48,414,225	66
Gm6866	3646160	7	48,465,535	48,474,629	66
Gm5592	3648691	7	48,539,697	48,545,553	66
Siglece	1932475	7	50,906,442	50,915,515	67
5730590G19Rik	1924261	7	86,805,082	86,843,020	69
Olfr555	3030389	7	109,807,337	109,808,284	70
Olfr558	3030392	7	109,850,845	109,860,568	71
Dub2a	3051372	7	110,398,251	110,401,019	72
Olfr596	3030430	7	110,458,237	110,459,175	72
Olfr597	3030431	7	110,468,915	110,469,874	72
Olfr598	3030432	7	110,477,002	110,477,961	72
Olfr599	3030433	7	110,486,570	110,487,517	72
Olfr635	3030469	7	111,127,690	111,128,655	74
Olfr638	3030472	7	111,151,773	111,152,738	74
Trim34-1	2137359	7	111,392,973	111,489,207	75,76
Trim5	3646853	7	111,411,900	111,436,608	75
Gm15134	3805550	7	111,448,744	111,485,423	76
Trim12-2	4821183	7	111,487,268	111,501,876	76
Olfr471	3030305	7	115,004,566	115,005,492	78
Olfr486	3030320	7	115,315,312	115,316,256	79
Olfr487	3030321	7	115,355,097	115,356,041	79
Olfr506	3030340	7	115,755,823	115,756,767	80
9130019O22Rik	1926171	7	134,525,774	134,530,680	82
Tex24	1921539	8	28,454,866	28,459,659	83
Clasp2	1923749	9	113,721,704	113,828,815	88
Gpd1l	1289257	9	114,808,459	114,843,105	89
Utrn	104631	10	12,101,986	12,581,533	92
E030030I06Rik	2442914	10	21,833,938	21,868,629	95
Raet1c	109431	10	21,878,375	22,093,945	95, 96
Raet1e	2675273	10	21,893,327	21,903,720	95
H60b	3649078	10	21,993,152	22,008,655	96

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Raet1d	1861032	10	22,082,077	22,093,945	96
Bicc1	1933388	10	70,385,580	70,622,448	97
Itifb	2151139	10	117,726,685	117,732,094	99
Olf56	1333785	11	48,864,235	48,948,889	102
Tgtp2	3710083	11	48,870,696	48,877,708	102
Cdkl3	2388268	11	51,817,723	51,903,286	103
Zfp867	2681848	11	59,275,298	59,285,976	104
Zfp287	2176561	11	62,513,858	62,545,407	105
Gm10480	3642435	12	18,223,364	18,224,634	110
Gm9590	3779999	12	18,394,561	18,413,667	110
5730507C01Rik	1917882	12	18,521,544	18,540,997	110
Nampt	1929865	12	33,505,340	33,536,472	111
Eml5	2442513	12	100,024,814	100,139,694	115
Golga5	1351475	12	103,707,402	103,736,112	116
Gm16948	4439872	12	114,849,395	114,849,828	118
Gm16999	4439923	12	115,272,016	115,272,487	119
Gm16840	4439764	12	115,298,056	115,298,484	119
Gm16697	4439621	12	115,821,780	115,822,213	121
Gm16735	4439659	12	116,089,401	116,089,834	123
AB069917	3576502	12	116,396,614	116,397,046	124
Gm9740	3815333	12	116,532,277	116,532,573	125
Gm16746	4439670	12	117,100,078	117,100,511	127
Gm16812	4439736	12	117,106,984	117,107,413	127
5033411D12Rik	1923221	13	16,949,689	17,786,566	129, 130
Vmn1r188	2182259	13	22,179,747	22,180,673	131
Vmn1r189	2182257	13	22,193,596	22,194,534	131
Cast	1098236	13	74,831,734	74,945,369	132
Pde4d	99555	13	109,240,142	110,743,669	134 - 137
4930452B06Rik	1926154	14	9,263,706	9,498,754	138
Ghitm	1913342	14	37,935,137	37,948,484	139
Gm4606	3782789	14	73,240,448	73,263,362	140
Elf1	107180	14	79,881,001	79,982,283	141
Cdh12	109503	15	21,041,207	21,519,288	144
Depdc6	2146322	15	54,943,872	55,090,826	150
Lrrk2	1913975	15	91,503,606	91,646,551	152
Cd80	101775	16	38,459,013	38,487,015	153
Impg2	3044955	16	56,204,426	56,273,869	155
Tcp10b	98542	17	13,253,977	13,275,092	157
Gm10512	3642173	17	13,397,908	13,399,077	158

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Smok2a	1351487	17	13,414,054	13,420,524	158
Smok2b	3037705	17	13,421,718	13,430,055	158
Gm9880	3711246	17	13,547,438	13,569,717	158
Btbd9	1916625	17	30,357,046	30,667,310	159
Gm9874	3642006	17	30,622,456	30,622,908	159
Glo1	95742	17	30,729,806	30,749,539	159
1700097N02Rik	1914772	17	30,759,394	30,762,030	159
Dnahc8	107714	17	30,763,936	31,012,209	159
Gm9937	3642051	17	31,011,751	31,012,146	159
Glp1r	99571	17	31,038,812	31,073,455	159
H2-T24	95958	17	36,142,640	36,157,505	161
H2-T23	95957	17	36,166,921	36,169,646	162
H2-T22	95956	17	36,175,352	36,179,692	162
H2-T9	95965	17	36,175,352	36,179,692	162
Gm6034	3646212	17	36,179,906	36,195,590	162
H2-T10	95942	17	36,254,035	36,258,389	163
Gm10500	3641966	17	36,258,775	36,265,692	163
Gm10499	3702919	17	36,278,703	36,282,868	163
2410017I17Rik	1916967	17	36,292,064	36,292,354	163
Rftn1	1923688	17	50,131,582	50,329,999	164
Slc5a7	1927126	17	54,412,915	54,436,487	166
Slc30a6	2386741	17	74,794,972	74,823,569	169
Klraq1	1921075	17	88,929,577	88,987,426	170
Bin1	108092	18	32,536,911	32,595,385	171
Rcor2	1859854	19	7,341,815	7,349,715	176
Pkd2l1	1352448	19	44,222,127	44,266,932	178
Mid1	1100537	X	166,123,131	166,428,730	180
G530011O06Rik	3603513	X	166,412,975	166,416,849	180