

Table S7: Inversions detected by NGS. All inversions detected by NGS either in HAB or LAB mice are listed including information on their genomic position. Depending on the occurrence in HAB or in LAB, the inversions are numbered in ascending order according to their genomic position (e.g. H1 for the first inversion in HAB).

type	mouse line	no.	chr	start	end	size
inv	HAB	H 72	1	14,330,001	14,332,801	2,800
inv	LAB	L 51	1	14,330,401	14,332,801	2,400
inv	LAB	L 52	1	21,194,401	21,272,401	78,000
inv	HAB	H 73	1	21,194,601	21,272,401	77,800
inv	LAB	L 53	1	29,194,401	29,199,001	4,600
inv	HAB	H 74	1	31,533,401	31,534,201	800
inv	LAB	L 54	1	34,559,201	34,613,801	54,600
inv	HAB	H 75	1	34,559,201	34,614,601	55,400
inv	HAB	H 76	1	35,882,601	35,886,201	3,600
inv	HAB	H 77	1	69,291,601	69,294,201	2,600
inv	LAB	L 55	1	85,084,601	85,165,801	81,200
inv	HAB	H 78	1	90,126,801	90,128,001	1,200
inv	LAB	L 56	1	90,127,001	90,128,001	1,000
inv	LAB	L 57	1	110,854,801	110,887,601	32,800
inv	LAB	L 58	1	117,206,801	117,288,601	81,800
inv	HAB	H 79	1	117,207,001	117,288,401	81,400
inv	HAB	H 80	1	124,818,801	124,822,401	3,600
inv	HAB	H 81	1	125,485,801	125,492,201	6,400
inv	LAB	L 59	1	125,486,001	125,492,001	6,000
inv	LAB	L 60	1	149,732,401	149,747,801	15,400
inv	LAB	L 61	1	173,445,401	173,509,401	64,000
inv	HAB	H 82	1	173,445,801	173,509,801	64,000
inv	HAB	H 83	1	175,525,401	175,607,401	82,000
inv	LAB	L 62	1	177,308,001	177,308,801	800
inv	HAB	H 84	1	177,308,001	177,309,001	1,000
inv	LAB	L 63	2	42,121,001	42,124,001	3,000
inv	HAB	H 85	2	42,121,001	42,124,401	3,400
inv	HAB	H 86	2	65,241,801	65,244,001	2,200
inv	LAB	L 64	2	65,242,201	65,243,801	1,600
inv	HAB	H 87	2	69,554,801	69,556,001	1,200
inv	HAB	H 88	2	81,117,401	81,143,801	26,400
inv	LAB	L 65	2	81,117,601	81,143,801	26,200
inv	HAB	H 89	2	85,418,401	85,449,601	31,200
inv	HAB	H 90	2	86,301,601	86,350,601	49,000
inv	LAB	L 66	2	98,504,201	98,505,601	1,400
inv	HAB	H 91	2	98,504,201	98,505,601	1,400
inv	HAB	H 92	2	100,040,401	100,042,001	1,600
inv	LAB	L 67	2	100,040,801	100,041,601	800
inv	HAB	H 93	2	111,439,401	111,442,401	3,000
inv	LAB	L 68	2	111,439,601	111,442,001	2,400
inv	HAB	H 94	2	118,389,201	118,391,601	2,400
inv	HAB	H 95	2	121,304,401	121,346,801	42,400

type	mouse line	no.	chr	start	end	size
inv	LAB	L 69	2	122,227,001	122,301,601	74,600
inv	HAB	H 96	2	122,228,201	122,301,601	73,400
inv	HAB	H 97	2	141,415,401	141,416,601	1,200
inv	LAB	L 70	2	141,415,801	141,416,201	400
inv	HAB	H 98	2	154,435,201	154,438,201	3,000
inv	LAB	L 71	2	154,744,601	154,795,201	50,600
inv	LAB	L 72	2	157,526,801	157,528,401	1,600
inv	HAB	H 99	3	6,209,401	6,211,401	2,000
inv	HAB	H 100	3	20,679,201	20,697,001	17,800
inv	LAB	L 73	3	20,679,601	20,696,801	17,200
inv	LAB	L 74	3	22,796,401	22,799,601	3,200
inv	HAB	H 101	3	22,796,401	22,799,001	2,600
inv	LAB	L 75	3	34,490,801	34,491,801	1,000
inv	HAB	H 102	3	49,158,001	49,169,601	11,600
inv	LAB	L 76	3	49,158,601	49,169,001	10,400
inv	LAB	L 77	3	60,672,801	60,675,201	2,400
inv	HAB	H 103	3	76,177,801	76,178,601	800
inv	HAB	H 104	3	96,290,601	96,297,801	7,200
inv	LAB	L 78	3	96,290,801	96,297,601	6,800
inv	HAB	H 105	3	117,136,601	117,138,001	1,400
inv	HAB	H 106	3	121,445,601	121,447,001	1,400
inv	HAB	H 107	3	137,190,001	137,199,201	9,200
inv	LAB	L 79	3	140,352,401	140,354,201	1,800
inv	HAB	H 108	3	140,352,401	140,354,601	2,200
inv	HAB	H 109	3	151,053,001	151,053,201	200
inv	LAB	L 80	4	93,370,401	93,438,401	68,000
inv	LAB	L 81	4	93,450,001	93,468,401	18,400
inv	HAB	H 110	4	100,401,601	100,403,401	1,800
inv	HAB	H 111	4	112,361,201	112,367,801	6,600
inv	HAB	H 112	4	118,467,001	118,582,401	115,400
inv	HAB	H 113	4	129,341,801	129,342,201	400
inv	HAB	H 114	4	144,191,601	144,243,401	51,800
inv	LAB	L 82	4	144,192,001	144,243,001	51,000
inv	LAB	L 83	5	6,710,001	6,712,801	2,800
inv	HAB	H 115	5	6,710,201	6,712,801	2,600
inv	HAB	H 116	5	10,059,001	10,059,201	200
inv	LAB	L 84	5	13,833,401	13,886,801	53,400
inv	HAB	H 117	5	13,833,401	13,887,201	53,800
inv	LAB	L 85	5	15,054,201	15,206,201	152,000
inv	HAB	H 118	5	15,055,201	15,206,401	151,200
inv	HAB	H 119	5	22,524,401	22,525,601	1,200
inv	LAB	L 86	5	22,524,801	22,525,601	800

type	mouse line	no.	chr	start	end	size
inv	LAB	L 87	5	50,128,601	50,146,601	18,000
inv	HAB	H 120	5	50,128,601	50,146,801	18,200
inv	HAB	H 121	5	51,345,601	51,350,001	4,400
inv	LAB	L 88	5	51,346,001	51,349,601	3,600
inv	LAB	L 89	5	57,883,001	57,894,601	11,600
inv	HAB	H 122	5	57,883,001	57,895,201	12,200
inv	HAB	H 123	5	66,371,001	66,385,401	14,400
inv	HAB	H 124	5	66,419,801	66,421,001	1,200
inv	LAB	L 90	5	67,097,801	67,099,401	1,600
inv	HAB	H 125	5	102,778,201	102,780,401	2,200
inv	LAB	L 91	5	102,778,601	102,780,001	1,400
inv	LAB	L 92	5	105,173,401	105,268,401	95,000
inv	LAB	L 93	5	138,644,801	138,691,601	46,800
inv	HAB	H 126	5	138,644,801	138,689,801	45,000
inv	HAB	H 127	6	48,213,601	48,220,401	6,800
inv	LAB	L 94	6	48,218,201	48,220,201	2,000
inv	HAB	H 128	6	62,899,801	62,901,601	1,800
inv	HAB	H 129	6	66,615,601	66,681,401	65,800
inv	HAB	H 130	6	68,575,801	68,662,601	86,800
inv	HAB	H 131	6	70,852,201	70,854,001	1,800
inv	LAB	L 95	6	70,852,601	70,852,801	200
inv	HAB	H 132	6	94,361,001	94,362,001	1,000
inv	LAB	L 96	6	94,361,201	94,362,001	800
inv	HAB	H 133	6	116,650,801	116,652,801	2,000
inv	HAB	H 134	6	121,640,001	121,649,401	9,400
inv	LAB	L 97	6	121,640,201	121,654,201	14,000
inv	HAB	H 135	6	133,645,201	133,731,801	86,600
inv	HAB	H 136	6	142,435,801	142,437,601	1,800
inv	HAB	H 137	7	3,509,401	3,514,801	5,400
inv	LAB	L 98	7	3,509,601	3,514,801	5,200
inv	HAB	H 138	7	11,042,201	11,042,601	400
inv	LAB	L 99	7	15,861,201	15,867,401	6,200
inv	HAB	H 139	7	17,261,801	17,308,001	46,200
inv	HAB	H 140	7	19,169,601	19,230,201	60,600
inv	HAB	H 141	7	19,246,201	19,389,801	143,600
inv	HAB	H 142	7	25,458,801	25,533,201	74,400
inv	HAB	H 143	7	51,158,601	51,168,201	9,600
inv	LAB	L 100	7	52,188,401	52,188,601	200
inv	HAB	H 144	7	52,197,801	52,198,201	400
inv	LAB	L 101	7	62,124,601	62,128,401	3,800
inv	HAB	H 145	7	62,124,601	62,128,801	4,200
inv	HAB	H 146	7	88,081,601	88,118,001	36,400

type	mouse line	no.	chr	start	end	size
inv	HAB	H 147	7	95,447,401	95,448,001	600
inv	HAB	H 148	7	110,165,001	110,176,601	11,600
inv	HAB	H 149	7	110,456,001	110,535,801	79,800
inv	HAB	H 150	7	114,208,801	114,281,801	73,000
inv	HAB	H 151	7	116,228,401	116,230,801	2,400
inv	HAB	H 152	7	117,822,401	117,823,801	1,400
inv	LAB	L 102	7	121,323,601	121,324,201	600
inv	HAB	H 153	8	22,084,001	22,149,801	65,800
inv	LAB	L 103	8	22,095,601	22,148,801	53,200
inv	HAB	H 154	8	28,473,401	28,475,201	1,800
inv	HAB	H 155	8	32,338,201	32,342,201	4,000
inv	LAB	L 104	8	32,338,401	32,342,201	3,800
inv	LAB	L 105	8	34,408,201	34,421,201	13,000
inv	HAB	H 156	8	52,963,001	52,964,401	1,400
inv	HAB	H 157	8	77,129,201	77,137,601	8,400
inv	LAB	L 106	8	77,132,401	77,137,401	5,000
inv	LAB	L 107	8	88,120,001	88,124,401	4,400
inv	LAB	L 108	8	91,501,001	91,501,801	800
inv	HAB	H 158	8	91,501,001	91,502,001	1,000
inv	HAB	H 159	8	94,213,001	94,214,201	1,200
inv	LAB	L 109	8	94,213,201	94,214,201	1,000
inv	LAB	L 110	8	128,732,001	128,733,001	1,000
inv	HAB	H 160	9	41,090,001	41,091,201	1,200
inv	LAB	L 111	9	41,090,401	41,091,001	600
inv	HAB	H 161	9	41,291,201	41,292,801	1,600
inv	HAB	H 162	9	65,695,601	65,696,001	400
inv	HAB	H 163	9	68,338,401	68,341,401	3,000
inv	LAB	L 112	9	68,338,601	68,341,401	2,800
inv	LAB	L 113	9	78,147,801	78,185,401	37,600
inv	HAB	H 164	9	78,148,201	78,196,801	48,600
inv	HAB	H 165	9	100,988,601	100,998,201	9,600
inv	LAB	L 114	9	100,989,001	100,998,201	9,200
inv	LAB	L 115	9	105,402,601	105,404,601	2,000
inv	HAB	H 166	9	105,402,601	105,404,801	2,200
inv	HAB	H 167	9	105,604,601	105,606,401	1,800
inv	LAB	L 116	9	105,605,201	105,606,201	1,000
inv	HAB	H 1	10	4,060,401	4,072,601	12,200
inv	LAB	L 1	10	4,060,601	4,069,001	8,400
inv	LAB	L 2	10	21,803,401	21,833,801	30,400
inv	LAB	L 3	10	21,871,201	21,879,401	8,200
inv	HAB	H 2	10	24,934,201	24,935,601	1,400
inv	HAB	H 3	10	93,016,001	93,017,601	1,600

type	mouse line	no.	chr	start	end	size
inv	LAB	L 4	10	100,293,401	100,294,601	1,200
inv	HAB	H 4	10	100,293,401	100,296,001	2,600
inv	HAB	H 5	10	103,407,401	103,410,401	3,000
inv	HAB	H 6	10	104,227,801	104,229,801	2,000
inv	LAB	L 5	10	125,211,001	125,212,401	1,400
inv	LAB	L 6	10	125,941,201	125,941,801	600
inv	HAB	H 7	11	18,080,601	18,082,801	2,200
inv	HAB	H 8	11	31,945,401	31,948,601	3,200
inv	LAB	L 7	11	31,945,801	31,948,601	2,800
inv	HAB	H 9	11	33,676,601	33,678,001	1,400
inv	LAB	L 8	11	46,494,801	46,567,801	73,000
inv	HAB	H 10	11	46,496,001	46,567,001	71,000
inv	LAB	L 9	11	49,011,401	49,013,401	2,000
inv	HAB	H 11	11	58,315,801	58,393,001	77,200
inv	LAB	L 10	11	58,319,001	58,392,801	73,800
inv	HAB	H 12	11	58,471,601	58,552,001	80,400
inv	LAB	L 11	11	58,472,601	58,569,201	96,600
inv	HAB	H 13	11	63,648,401	63,651,401	3,000
inv	LAB	L 12	11	72,910,801	72,912,001	1,200
inv	HAB	H 14	11	75,971,801	75,974,401	2,600
inv	LAB	L 13	11	75,972,201	75,974,001	1,800
inv	LAB	L 14	11	101,503,601	101,506,201	2,600
inv	HAB	H 15	11	101,503,601	101,507,801	4,200
inv	LAB	L 15	12	14,857,201	14,859,201	2,000
inv	HAB	H 16	12	27,398,201	27,411,801	13,600
inv	LAB	L 16	12	27,398,601	27,411,601	13,000
inv	LAB	L 17	12	41,601,601	41,609,401	7,800
inv	HAB	H 17	12	41,601,601	41,609,401	7,800
inv	LAB	L 18	12	43,324,601	43,328,201	3,600
inv	HAB	H 18	12	43,324,601	43,328,601	4,000
inv	HAB	H 19	12	85,401,201	85,404,001	2,800
inv	LAB	L 19	12	85,401,401	85,404,001	2,600
inv	LAB	L 20	12	105,370,801	105,505,001	134,200
inv	HAB	H 20	12	105,411,801	105,504,801	93,000
inv	HAB	H 21	12	110,359,601	110,361,401	1,800
inv	LAB	L 21	12	110,359,801	110,361,401	1,600
inv	HAB	H 22	12	114,472,801	114,490,001	17,200
inv	HAB	H 23	13	19,312,001	19,399,601	87,600
inv	LAB	L 22	13	19,313,201	19,398,401	85,200
inv	LAB	L 23	13	22,159,801	22,235,401	75,600
inv	HAB	H 24	13	47,767,001	47,769,401	2,400
inv	HAB	H 25	13	53,535,001	53,537,401	2,400

type	mouse line	no.	chr	start	end	size
inv	LAB	L 24	13	53,535,401	53,537,401	2,000
inv	HAB	H 26	13	65,072,001	65,098,601	26,600
inv	LAB	L 25	13	65,072,401	65,098,201	25,800
inv	HAB	H 27	13	66,528,201	66,593,201	65,000
inv	HAB	H 28	13	66,695,801	66,772,601	76,800
inv	HAB	H 29	13	67,849,001	67,927,401	78,400
inv	LAB	L 26	13	67,849,201	67,927,801	78,600
inv	HAB	H 30	13	68,448,401	68,519,201	70,800
inv	HAB	H 31	13	111,016,201	111,017,201	1,000
inv	LAB	L 27	13	111,016,601	111,016,801	200
inv	HAB	H 32	13	112,775,001	112,791,801	16,800
inv	HAB	H 33	14	19,320,001	19,353,401	33,400
inv	LAB	L 28	14	44,519,601	44,592,001	72,400
inv	HAB	H 34	14	44,522,201	44,594,401	72,200
inv	LAB	L 29	14	50,389,601	50,441,201	51,600
inv	HAB	H 35	14	50,390,601	50,440,801	50,200
inv	HAB	H 36	14	51,762,801	51,879,801	117,000
inv	LAB	L 30	14	51,774,001	51,880,801	106,800
inv	LAB	L 31	14	83,797,001	83,797,801	800
inv	HAB	H 37	14	83,797,001	83,798,001	1,000
inv	LAB	L 32	14	84,616,601	84,621,601	5,000
inv	HAB	H 38	14	84,616,601	84,621,801	5,200
inv	HAB	H 39	14	84,766,401	84,774,601	8,200
inv	HAB	H 40	14	86,200,601	86,201,601	1,000
inv	HAB	H 41	14	86,683,401	86,684,201	800
inv	HAB	H 42	14	101,800,601	101,801,201	600
inv	LAB	L 33	14	106,143,001	106,145,801	2,800
inv	HAB	H 43	14	112,011,801	112,012,801	1,000
inv	HAB	H 44	15	10,075,201	10,076,201	1,000
inv	LAB	L 34	15	20,997,201	20,999,001	1,800
inv	HAB	H 45	15	31,054,001	31,055,001	1,000
inv	HAB	H 46	15	36,022,801	36,023,801	1,000
inv	HAB	H 47	15	69,030,601	69,047,801	17,200
inv	LAB	L 35	15	69,031,001	69,047,001	16,000
inv	LAB	L 36	15	74,823,401	75,022,001	198,600
inv	HAB	H 48	15	74,827,401	74,997,401	170,000
inv	LAB	L 37	15	77,350,001	77,446,601	96,600
inv	HAB	H 49	15	77,350,001	77,445,401	95,400
inv	HAB	H 50	15	78,116,001	78,176,001	60,000
inv	LAB	L 38	15	78,118,001	78,176,601	58,600
inv	LAB	L 39	15	84,652,601	84,655,001	2,400
inv	HAB	H 51	15	84,652,601	84,655,401	2,800

type	mouse line	no.	chr	start	end	size
inv	LAB	L 40	16	6,248,601	6,251,201	2,600
inv	HAB	H 52	16	6,248,601	6,251,001	2,400
inv	HAB	H 53	16	53,587,601	53,591,401	3,800
inv	HAB	H 54	16	54,664,601	54,668,601	4,000
inv	HAB	H 55	17	14,083,801	14,183,001	99,200
inv	HAB	H 56	17	15,618,801	15,624,401	5,600
inv	LAB	L 41	17	15,619,601	15,624,001	4,400
inv	HAB	H 57	17	18,916,801	18,917,601	800
inv	HAB	H 58	17	22,685,601	22,754,401	68,800
inv	HAB	H 59	17	23,061,201	23,073,201	12,000
inv	HAB	H 60	17	32,204,401	32,249,801	45,400
inv	LAB	L 42	17	46,568,801	46,571,401	2,600
inv	HAB	H 61	17	53,084,601	53,128,601	44,000
inv	LAB	L 43	17	53,084,801	53,128,201	43,400
inv	LAB	L 44	17	53,934,601	54,007,001	72,400
inv	HAB	H 62	17	89,393,401	89,399,401	6,000
inv	HAB	H 63	18	11,013,201	11,043,801	30,600
inv	LAB	L 45	18	11,013,601	11,043,801	30,200
inv	LAB	L 46	18	11,387,601	11,459,801	72,200
inv	HAB	H 64	18	11,387,801	11,460,401	72,600
inv	HAB	H 65	18	13,370,201	13,372,401	2,200
inv	HAB	H 66	18	39,481,801	39,487,001	5,200
inv	LAB	L 47	18	39,482,001	39,487,001	5,000
inv	HAB	H 67	18	55,496,601	55,497,601	1,000
inv	HAB	H 68	18	84,355,801	84,357,201	1,400
inv	HAB	H 69	19	14,094,401	14,098,201	3,800
inv	HAB	H 70	19	40,068,201	40,147,601	79,400
inv	LAB	L 48	19	40,071,001	40,186,201	115,200
inv	LAB	L 49	19	53,018,201	53,019,601	1,400
inv	LAB	L 50	19	60,000,601	60,003,201	2,600
inv	HAB	H 71	19	60,000,601	60,003,801	3,200
inv	HAB	H 168	X	139,663,601	139,697,801	34,200
inv	LAB	L 117	X	139,663,801	139,697,401	33,600
inv	LAB	L 118	Y	2,792,601	2,863,401	70,800
inv	HAB	H 169	Y	2,794,201	2,862,401	68,200