

Table S11: CNVs detected in CD-1 mice by JaxMDGA. CNVs were revealed in at least one pair of the 64 animals screened. List is sorted by genomic position and CNVs are numbered from 1 to 764.

No.	Chr	Start [bp]	End [bp]	Size [bp]
1	1	16,147,549	16,166,507	18,958
2	1	20,549,514	20,552,454	2,940
3	1	23,385,680	23,385,855	175
4	1	31,776,449	31,799,110	22,661
5	1	35,232,073	35,235,862	3,789
6	1	36,837,694	36,838,290	596
7	1	39,032,035	39,038,959	6,924
8	1	42,233,858	42,246,588	12,730
9	1	52,348,330	52,357,761	9,431
10	1	55,456,409	55,456,847	438
11	1	55,818,726	55,848,831	30,105
12	1	59,336,832	59,337,495	663
13	1	71,734,705	71,741,575	6,870
14	1	72,198,891	72,210,724	11,833
15	1	77,743,451	77,769,548	26,097
16	1	78,229,021	78,245,671	16,650
17	1	79,034,685	79,074,361	39,676
18	1	95,748,149	95,795,140	46,991
19	1	97,254,323	97,293,244	38,921
20	1	97,405,881	97,405,894	13
21	1	111,646,054	111,711,660	65,606
22	1	116,260,504	116,348,067	87,563
23	1	117,256,807	117,267,404	10,597
24	1	118,847,466	118,897,095	49,629
25	1	124,786,026	124,822,324	36,298
26	1	125,564,862	125,583,245	18,383
27	1	129,051,041	129,076,535	25,494
28	1	130,723,207	130,733,460	10,253
29	1	132,430,355	132,474,622	44,267
30	1	135,250,842	135,255,585	4,743
31	1	141,633,508	141,686,866	53,358
32	1	142,515,175	142,625,802	110,627
33	1	145,624,593	145,649,348	24,755
34	1	150,529,441	150,543,605	14,164
35	1	150,754,214	150,777,417	23,203
36	1	150,869,357	151,048,926	179,569
37	1	151,114,382	151,189,461	75,079
38	1	151,948,823	151,949,622	799
39	1	152,327,228	152,327,348	120
40	1	152,551,280	152,551,619	339
41	1	155,362,668	155,395,168	32,500
42	1	159,719,419	160,644,184	924,765
43	1	160,802,986	161,749,651	946,665

No.	Chr	Start [bp]	End [bp]	Size [bp]
44	1	170,514,272	170,514,364	92
45	1	173,168,430	173,168,911	481
46	1	173,219,128	173,222,721	3,593
47	1	175,732,220	175,912,848	180,628
48	1	175,929,891	175,942,012	12,121
49	1	175,956,768	175,956,788	20
50	1	177,725,275	177,729,816	4,541
51	1	177,998,116	178,000,769	2,653
52	1	183,060,113	183,072,518	12,405
53	1	186,078,558	186,110,754	32,196
54	1	191,042,126	191,079,146	37,020
55	2	8,079,421	8,097,887	18,466
56	2	10,026,781	10,026,809	28
57	2	13,664,146	13,664,834	688
58	2	14,998,525	15,246,657	248,132
59	2	15,367,870	15,368,633	763
60	2	19,097,545	19,120,990	23,445
61	2	23,575,240	23,694,548	119,308
62	2	24,048,126	24,054,617	6,491
63	2	24,535,423	24,654,597	119,174
64	2	38,974,768	38,976,716	1,948
65	2	46,736,100	46,736,483	383
66	2	49,051,169	49,070,497	19,328
67	2	51,610,260	51,614,420	4,160
68	2	55,558,622	55,579,024	20,402
69	2	62,524,035	62,524,468	433
70	2	63,192,560	63,242,247	49,687
71	2	65,188,132	65,192,936	4,804
72	2	67,407,575	67,425,236	17,661
73	2	71,656,510	71,687,549	31,039
74	2	74,336,997	74,349,334	12,337
75	2	77,654,621	77,675,641	21,020
76	2	77,675,871	77,873,766	197,895
77	2	83,693,539	83,697,762	4,223
78	2	85,646,753	85,648,776	2,023
79	2	85,832,974	85,867,734	34,760
80	2	86,532,638	86,532,761	123
81	2	88,639,234	88,671,005	31,771
82	2	89,450,021	89,457,958	7,937
83	2	89,760,829	89,783,357	22,528
84	2	89,902,828	89,923,597	20,769
85	2	90,107,247	90,107,565	318
86	2	90,687,682	90,704,935	17,253
87	2	95,223,572	95,293,225	69,653
88	2	95,432,355	95,501,943	69,588
89	2	95,601,049	95,660,090	59,041

No.	Chr	Start [bp]	End [bp]	Size [bp]
90	2	97,990,327	98,098,900	108,573
91	2	98,502,651	98,504,185	1,534
92	2	99,858,667	99,872,693	14,026
93	2	100,669,661	100,698,052	28,391
94	2	101,400,951	101,406,561	5,610
95	2	104,754,730	104,755,713	983
96	2	107,456,118	107,456,210	92
97	2	114,646,550	114,812,772	166,222
98	2	119,435,715	119,443,644	7,929
99	2	125,053,391	125,067,750	14,359
100	2	128,720,236	128,721,154	918
101	2	131,988,279	131,995,341	7,062
102	2	141,299,494	141,324,822	25,328
103	2	142,748,719	142,766,622	17,903
104	2	145,449,366	145,461,121	11,755
105	2	147,347,705	147,361,349	13,644
106	2	147,572,128	147,572,911	783
107	2	148,755,144	148,927,143	171,999
108	2	149,137,132	149,146,946	9,814
109	2	150,863,347	151,038,740	175,393
110	2	152,838,130	152,838,140	10
111	2	157,151,875	157,154,538	2,663
112	2	158,150,954	158,151,984	1,030
113	2	158,641,258	158,643,203	1,945
114	2	159,276,790	159,289,145	12,355
115	2	159,730,233	159,749,061	18,828
116	2	161,562,255	161,562,577	322
117	2	162,539,702	162,582,200	42,498
118	2	174,886,491	177,803,022	2,916,531
119	2	181,026,765	181,027,369	604
120	3	7,421,882	7,421,985	103
121	3	8,555,413	8,556,638	1,225
122	3	10,385,565	10,390,978	5,413
123	3	15,340,258	15,819,607	479,349
124	3	16,902,891	16,932,841	29,950
125	3	18,744,219	18,777,414	33,195
126	3	19,248,566	19,249,465	899
127	3	19,908,299	19,908,553	254
128	3	24,116,353	24,157,241	40,888
129	3	27,091,227	27,091,625	398
130	3	36,939,970	36,945,279	5,309
131	3	38,148,460	38,176,970	28,510
132	3	46,180,539	46,182,502	1,963
133	3	46,586,743	46,615,495	28,752
134	3	52,324,222	52,329,358	5,136
135	3	73,340,026	73,346,338	6,312

No.	Chr	Start [bp]	End [bp]	Size [bp]
136	3	73,914,056	74,346,968	432,912
137	3	75,378,209	75,414,973	36,764
138	3	75,623,409	75,627,481	4,072
139	3	75,701,773	75,712,088	10,315
140	3	75,822,052	75,927,523	105,471
141	3	76,770,745	76,819,643	48,898
142	3	76,953,923	76,971,769	17,846
143	3	77,322,331	77,371,012	48,681
144	3	77,485,805	77,554,692	68,887
145	3	77,660,467	77,714,260	53,793
146	3	79,517,672	79,541,183	23,511
147	3	79,891,997	79,907,423	15,426
148	3	80,082,499	80,104,957	22,458
149	3	80,664,095	80,665,695	1,600
150	3	81,739,495	81,746,183	6,688
151	3	82,811,832	82,812,650	818
152	3	90,910,494	91,030,404	119,910
153	3	91,831,940	91,835,321	3,381
154	3	92,782,636	92,787,763	5,127
155	3	93,569,096	94,040,272	471,176
156	3	102,697,496	102,739,985	42,489
157	3	103,421,855	103,422,775	920
158	3	105,009,284	105,009,297	13
159	3	110,734,020	110,807,739	73,719
160	3	111,559,680	111,562,943	3,263
161	3	112,470,201	112,489,449	19,248
162	3	114,246,547	114,456,005	209,458
163	3	116,043,731	116,044,155	424
164	3	116,517,329	116,519,296	1,967
165	3	116,765,381	116,765,393	12
166	3	121,705,472	121,715,079	9,607
167	3	122,728,997	122,729,137	140
168	3	133,030,667	133,030,900	233
169	3	135,520,542	135,537,289	16,747
170	3	137,032,543	137,036,277	3,734
171	3	137,487,798	137,529,819	42,021
172	3	138,263,100	138,275,710	12,610
173	3	141,381,217	141,384,341	3,124
174	3	141,728,366	141,728,691	325
175	3	142,632,626	142,644,531	11,905
176	3	142,821,258	142,823,735	2,477
177	3	143,512,892	143,520,968	8,076
178	4	3,458,919	3,479,026	20,107
179	4	6,095,005	6,095,833	828
180	4	8,414,927	8,415,380	453
181	4	12,377,058	12,377,306	248

No.	Chr	Start [bp]	End [bp]	Size [bp]
182	4	19,295,055	19,299,440	4,385
183	4	21,584,773	21,585,024	251
184	4	29,707,218	29,784,325	77,107
185	4	30,266,433	30,312,363	45,930
186	4	56,211,617	56,212,288	671
187	4	57,769,227	57,769,969	742
188	4	71,762,125	71,768,691	6,566
189	4	77,028,168	77,043,306	15,138
190	4	77,228,417	77,255,056	26,639
191	4	81,900,655	81,923,439	22,784
192	4	89,041,272	89,044,023	2,751
193	4	89,324,010	89,327,913	3,903
194	4	98,039,179	98,039,527	348
195	4	99,656,586	99,659,910	3,324
196	4	101,601,485	101,601,817	332
197	4	105,739,813	105,741,093	1,280
198	4	108,610,948	108,611,085	137
199	4	111,745,396	112,286,229	540,833
200	4	112,348,832	113,968,233	1,619,401
201	4	121,651,872	122,237,050	585,178
202	4	143,201,660	143,205,948	4,288
203	4	143,539,831	143,555,553	15,722
204	4	144,334,174	144,334,795	621
205	4	145,452,418	146,034,593	582,175
206	4	146,941,153	147,202,567	261,414
207	4	155,497,765	155,507,226	9,461
208	5	3,499,602	3,519,482	19,880
209	5	3,884,799	3,922,844	38,045
210	5	4,844,004	4,869,796	25,792
211	5	5,129,103	5,135,345	6,242
212	5	5,538,674	5,547,973	9,299
213	5	5,584,666	5,584,972	306
214	5	5,954,742	6,110,511	155,769
215	5	6,935,526	6,993,918	58,392
216	5	7,031,786	7,048,239	16,453
217	5	7,052,180	7,171,279	119,099
218	5	7,989,617	8,014,367	24,750
219	5	10,100,240	10,117,317	17,077
220	5	10,562,250	10,612,072	49,822
221	5	10,785,521	11,246,794	461,273
222	5	12,178,347	12,178,906	559
223	5	24,721,251	24,722,132	881
224	5	24,735,376	24,752,262	16,886
225	5	37,404,544	37,441,150	36,606
226	5	52,175,933	52,192,752	16,819
227	5	54,011,829	54,052,518	40,689

No.	Chr	Start [bp]	End [bp]	Size [bp]
228	5	54,883,390	54,937,412	54,022
229	5	55,418,075	55,483,118	65,043
230	5	56,051,344	56,105,526	54,182
231	5	56,305,332	56,639,679	334,347
232	5	57,133,588	57,340,535	206,947
233	5	57,523,177	57,665,253	142,076
234	5	57,802,748	57,881,343	78,595
235	5	58,053,095	58,082,352	29,257
236	5	58,311,716	58,332,254	20,538
237	5	59,737,484	59,830,718	93,234
238	5	61,916,323	61,982,272	65,949
239	5	63,315,493	63,315,979	486
240	5	65,457,666	65,458,442	776
241	5	72,864,953	72,887,910	22,957
242	5	73,849,774	73,880,229	30,455
243	5	77,492,850	77,510,553	17,703
244	5	77,654,536	77,670,776	16,240
245	5	79,306,300	79,320,284	13,984
246	5	84,551,530	84,563,500	11,970
247	5	85,651,181	85,653,617	2,436
248	5	88,583,061	88,583,112	51
249	5	89,769,116	89,769,508	392
250	5	91,008,627	91,008,703	76
251	5	93,157,395	93,174,537	17,142
252	5	94,161,655	96,262,456	2,100,801
253	5	105,034,912	105,359,320	324,408
254	5	105,511,760	105,511,768	8
255	5	108,854,265	108,854,385	120
256	5	109,297,277	109,405,615	108,338
257	5	112,964,873	112,965,257	384
258	5	114,023,755	114,025,841	2,086
259	5	116,694,063	116,703,656	9,593
260	5	118,388,158	118,390,795	2,637
261	5	139,004,112	139,005,838	1,726
262	5	147,753,247	147,754,272	1,025
263	5	148,493,203	148,495,504	2,301
264	6	7,932,634	7,938,483	5,849
265	6	8,041,854	8,049,012	7,158
266	6	15,857,424	15,864,027	6,603
267	6	23,304,438	23,304,526	88
268	6	24,062,606	24,063,639	1,033
269	6	33,119,386	33,120,432	1,046
270	6	34,205,393	34,221,475	16,082
271	6	41,994,493	42,018,238	23,745
272	6	45,499,299	45,520,306	21,007
273	6	67,402,363	67,416,752	14,389

No.	Chr	Start [bp]	End [bp]	Size [bp]
274	6	67,506,071	67,662,275	156,204
275	6	67,876,359	68,253,141	376,782
276	6	68,387,772	68,420,548	32,776
277	6	68,535,332	68,785,029	249,697
278	6	68,860,428	68,900,983	40,555
279	6	69,017,899	69,193,441	175,542
280	6	69,452,717	69,650,773	198,056
281	6	70,210,441	70,265,090	54,649
282	6	70,355,698	70,356,974	1,276
283	6	70,471,117	70,538,758	67,641
284	6	70,686,052	70,700,249	14,197
285	6	74,552,424	74,645,435	93,011
286	6	74,899,205	74,998,745	99,540
287	6	75,304,536	75,338,698	34,162
288	6	75,345,457	75,345,955	498
289	6	75,438,396	75,448,628	10,232
290	6	75,938,517	76,017,583	79,066
291	6	79,445,527	79,447,101	1,574
292	6	82,601,443	82,602,661	1,218
293	6	93,784,886	93,785,383	497
294	6	97,429,680	97,475,425	45,745
295	6	98,496,702	98,523,715	27,013
296	6	101,279,285	101,286,899	7,614
297	6	102,304,927	102,326,421	21,494
298	6	103,383,705	103,460,909	77,204
299	6	104,527,703	104,528,363	660
300	6	106,983,886	107,033,569	49,683
301	6	107,044,360	107,080,793	36,433
302	6	107,165,345	107,215,744	50,399
303	6	110,118,673	110,222,644	103,971
304	6	116,198,049	116,199,740	1,691
305	6	126,749,487	126,750,695	1,208
306	6	128,202,481	128,204,309	1,828
307	6	128,595,431	128,596,253	822
308	6	128,729,176	128,769,001	39,825
309	6	130,065,363	130,316,515	251,152
310	6	130,707,413	130,787,067	79,654
311	6	137,984,036	137,984,036	0
312	6	138,231,553	138,237,439	5,886
313	6	138,345,026	138,345,242	216
314	6	139,364,857	139,412,174	47,317
315	6	139,788,838	139,789,925	1,087
316	6	139,864,605	139,882,163	17,558
317	6	139,939,182	139,950,758	11,576
318	6	140,731,823	140,757,346	25,523
319	6	142,719,701	142,721,973	2,272

No.	Chr	Start [bp]	End [bp]	Size [bp]
320	6	142,768,112	142,806,140	38,028
321	6	143,197,769	143,206,183	8,414
322	6	143,508,240	143,525,815	17,575
323	6	143,640,052	143,657,471	17,419
324	6	145,108,944	145,120,036	11,092
325	6	145,308,959	145,315,910	6,951
326	7	5,363,956	5,499,501	135,545
327	7	6,274,816	6,275,328	512
328	7	9,155,987	10,622,466	1,466,479
329	7	10,962,599	10,978,345	15,746
330	7	12,198,129	12,258,765	60,636
331	7	12,671,417	12,671,825	408
332	7	12,712,933	12,770,476	57,543
333	7	16,481,510	16,489,413	7,903
334	7	20,658,198	24,083,399	3,425,201
335	7	27,627,143	27,736,250	109,107
336	7	31,017,542	31,018,654	1,112
337	7	32,532,002	32,694,597	162,595
338	7	35,461,546	35,461,901	355
339	7	35,802,070	35,807,318	5,248
340	7	38,961,668	38,997,301	35,633
341	7	39,096,069	46,665,068	7,568,999
342	7	48,319,662	48,548,430	228,768
343	7	50,914,593	50,919,381	4,788
344	7	54,636,276	54,680,897	44,621
345	7	54,813,251	54,974,058	160,807
346	7	54,976,185	55,008,187	32,002
347	7	55,012,164	55,036,726	24,562
348	7	55,052,585	55,194,801	142,216
349	7	55,454,535	55,702,761	248,226
350	7	60,618,457	60,731,880	113,423
351	7	78,961,795	78,971,649	9,854
352	7	79,385,029	79,385,270	241
353	7	83,036,560	83,045,516	8,956
354	7	86,827,857	86,840,870	13,013
355	7	109,754,987	109,760,894	5,907
356	7	109,794,774	109,817,326	22,552
357	7	109,855,744	109,858,484	2,740
358	7	110,073,824	110,096,332	22,508
359	7	110,142,788	110,201,227	58,439
360	7	110,370,159	110,491,407	121,248
361	7	111,067,015	111,077,749	10,734
362	7	111,120,174	111,154,197	34,023
363	7	111,428,102	111,428,284	182
364	7	111,485,184	111,501,846	16,662
365	7	111,647,983	111,683,670	35,687

No.	Chr	Start [bp]	End [bp]	Size [bp]
366	7	112,352,842	112,433,900	81,058
367	7	113,403,102	113,539,296	136,194
368	7	115,004,586	115,041,563	36,977
369	7	115,270,034	115,271,579	1,545
370	7	115,300,845	115,399,384	98,539
371	7	115,400,336	115,401,546	1,210
372	7	115,511,458	115,540,995	29,537
373	7	115,566,346	115,604,872	38,526
374	7	115,735,206	115,755,917	20,711
375	7	116,229,414	116,230,142	728
376	7	116,559,867	116,581,880	22,013
377	7	117,633,683	117,650,114	16,431
378	7	126,424,614	126,433,784	9,170
379	7	126,590,644	126,592,641	1,997
380	7	130,213,756	130,215,357	1,601
381	7	133,164,530	133,182,625	18,095
382	8	28,371,247	28,479,196	107,949
383	8	28,519,836	28,531,880	12,044
384	8	28,608,199	28,691,596	83,397
385	8	28,730,777	28,743,469	12,692
386	8	29,493,904	29,531,641	37,737
387	8	30,463,842	30,483,664	19,822
388	8	34,256,748	34,305,880	49,132
389	8	50,456,466	50,456,470	4
390	8	52,224,120	52,273,067	48,947
391	8	52,394,663	52,466,264	71,601
392	8	52,870,886	52,923,754	52,868
393	8	53,127,775	53,284,994	157,219
394	8	55,050,369	55,055,813	5,444
395	8	62,393,103	62,420,070	26,967
396	8	76,812,850	76,823,496	10,646
397	8	79,438,032	79,453,386	15,354
398	8	80,087,901	80,089,033	1,132
399	8	80,089,624	80,092,244	2,620
400	8	80,263,027	80,263,410	383
401	8	80,806,213	80,834,051	27,838
402	8	86,886,841	86,904,371	17,530
403	8	98,500,773	98,502,741	1,968
404	8	99,022,008	99,032,230	10,222
405	8	99,036,252	99,037,492	1,240
406	8	117,488,656	117,647,628	158,972
407	8	124,603,535	124,616,409	12,874
408	9	17,303,897	17,358,876	54,979
409	9	24,281,885	24,282,276	391
410	9	35,652,844	35,929,172	276,328
411	9	37,086,445	37,086,843	398

No.	Chr	Start [bp]	End [bp]	Size [bp]
412	9	38,126,083	38,141,452	15,369
413	9	38,480,102	38,488,311	8,209
414	9	39,149,141	39,234,634	85,493
415	9	48,364,375	48,368,373	3,998
416	9	49,959,080	49,978,944	19,864
417	9	83,521,018	83,522,534	1,516
418	9	88,476,937	88,499,227	22,290
419	9	103,355,461	103,358,235	2,774
420	9	113,721,718	113,722,368	650
421	9	114,756,414	114,766,671	10,257
422	9	114,814,094	114,815,852	1,758
423	9	118,476,311	118,491,621	15,310
424	10	7,534,475	7,534,653	178
425	10	9,122,767	9,150,853	28,086
426	10	12,334,301	12,334,411	110
427	10	15,272,668	15,281,790	9,122
428	10	15,385,518	15,432,971	47,453
429	10	20,924,226	20,938,033	13,807
430	10	21,769,739	22,093,887	324,148
431	10	24,369,091	24,369,167	76
432	10	27,471,662	27,497,089	25,427
433	10	44,430,245	44,548,182	117,937
434	10	53,563,604	53,572,451	8,847
435	10	54,019,992	54,044,971	24,979
436	10	55,530,107	55,533,033	2,926
437	10	61,300,867	61,301,038	171
438	10	64,959,612	64,965,464	5,852
439	10	65,108,691	65,113,379	4,688
440	10	65,208,081	65,240,478	32,397
441	10	70,494,361	70,494,548	187
442	10	72,164,250	72,231,618	67,368
443	10	73,046,724	73,090,099	43,375
444	10	87,785,880	87,786,384	504
445	10	99,340,365	99,364,548	24,183
446	10	103,379,190	103,397,024	17,834
447	10	103,726,788	103,890,930	164,142
448	10	109,341,525	109,363,075	21,550
449	10	111,372,429	111,375,473	3,044
450	10	115,399,439	115,404,360	4,921
451	10	117,614,479	117,746,451	131,972
452	10	123,514,580	123,514,754	174
453	10	126,303,572	126,304,575	1,003
454	10	126,764,978	126,765,568	590
455	10	129,849,758	129,883,067	33,309
456	11	3,416,276	3,416,511	235
457	11	21,397,151	21,398,878	1,727

No.	Chr	Start [bp]	End [bp]	Size [bp]
458	11	22,235,060	22,253,961	18,901
459	11	29,035,527	29,037,126	1,599
460	11	29,170,076	29,217,510	47,434
461	11	32,188,750	32,201,707	12,957
462	11	33,113,226	33,113,486	260
463	11	33,359,372	33,375,067	15,695
464	11	33,520,397	33,534,591	14,194
465	11	35,243,687	35,260,436	16,749
466	11	40,938,197	40,942,448	4,251
467	11	41,644,605	41,644,707	102
468	11	45,592,572	45,593,461	889
469	11	46,482,581	46,488,864	6,283
470	11	47,002,461	47,007,067	4,606
471	11	48,851,297	48,886,868	35,571
472	11	59,279,699	59,279,901	202
473	11	60,139,991	60,140,876	885
474	11	62,217,314	62,234,630	17,316
475	11	64,416,011	64,432,150	16,139
476	11	70,974,623	71,017,152	42,529
477	11	73,070,371	73,074,216	3,845
478	11	73,503,033	73,598,632	95,599
479	11	91,182,491	91,224,527	42,036
480	11	91,549,365	91,640,179	90,814
481	11	99,948,025	99,948,032	7
482	11	112,741,985	112,742,345	360
483	11	116,602,360	116,630,414	28,054
484	11	120,870,358	120,888,586	18,228
485	11	121,303,097	121,310,264	7,167
486	12	11,545,659	11,610,212	64,553
487	12	15,689,452	15,691,335	1,883
488	12	18,193,095	18,552,020	358,925
489	12	28,320,295	28,349,039	28,744
490	12	29,152,942	29,155,139	2,197
491	12	30,667,058	30,671,688	4,630
492	12	32,849,195	32,849,548	353
493	12	33,508,991	33,511,756	2,765
494	12	38,175,763	38,194,460	18,697
495	12	49,411,350	49,474,614	63,264
496	12	50,509,608	50,895,726	386,118
497	12	57,140,406	57,157,776	17,370
498	12	57,366,059	57,387,621	21,562
499	12	60,477,871	60,593,624	115,753
500	12	63,970,065	63,970,552	487
501	12	64,045,150	64,099,191	54,041
502	12	66,669,557	66,671,717	2,160
503	12	68,607,278	68,622,771	15,493

No.	Chr	Start [bp]	End [bp]	Size [bp]
504	12	69,722,650	69,722,675	25
505	12	75,478,580	75,484,124	5,544
506	12	75,965,852	75,973,713	7,861
507	12	77,072,190	77,074,593	2,403
508	12	77,397,670	77,403,999	6,329
509	12	85,202,936	85,230,001	27,065
510	12	89,139,185	89,415,572	276,387
511	12	93,121,761	93,132,845	11,084
512	12	94,915,259	94,917,313	2,054
513	12	94,931,070	94,939,081	8,011
514	12	96,196,196	96,223,173	26,977
515	12	96,623,312	96,623,586	274
516	12	100,077,912	100,080,008	2,096
517	12	100,214,407	100,217,042	2,635
518	12	102,582,454	102,828,642	246,188
519	12	110,355,216	110,412,139	56,923
520	12	111,254,016	111,287,270	33,254
521	12	112,776,324	112,778,081	1,757
522	12	114,835,711	114,963,919	128,208
523	12	115,034,479	115,040,077	5,598
524	12	115,186,599	115,379,105	192,506
525	12	115,674,340	115,700,639	26,299
526	12	115,795,799	115,842,787	46,988
527	12	115,869,496	115,975,158	105,662
528	12	116,056,336	116,152,952	96,616
529	12	116,193,887	116,195,061	1,174
530	12	116,359,895	116,583,730	223,835
531	12	116,745,882	117,040,993	295,111
532	12	117,059,447	117,200,047	140,600
533	12	117,219,726	117,240,329	20,603
534	12	117,915,807	117,945,526	29,719
535	13	7,649,110	7,724,259	75,149
536	13	12,573,915	12,574,894	979
537	13	13,804,037	13,805,108	1,071
538	13	13,972,917	13,987,506	14,589
539	13	15,251,117	15,261,775	10,658
540	13	16,433,591	16,468,016	34,425
541	13	17,090,987	17,129,337	38,350
542	13	17,220,681	17,226,530	5,849
543	13	17,390,746	17,391,604	858
544	13	17,574,927	17,603,308	28,381
545	13	18,383,273	18,417,107	33,834
546	13	19,273,334	19,275,613	2,279
547	13	22,180,406	22,247,428	67,022
548	13	23,653,701	23,668,319	14,618
549	13	25,099,130	25,099,212	82

No.	Chr	Start [bp]	End [bp]	Size [bp]
550	13	25,542,964	25,545,689	2,725
551	13	26,062,769	26,097,780	35,011
552	13	47,103,645	47,106,624	2,979
553	13	51,435,014	51,439,412	4,398
554	13	52,271,399	52,275,352	3,953
555	13	65,478,774	66,913,713	1,434,939
556	13	67,635,961	67,639,652	3,691
557	13	70,109,094	70,129,981	20,887
558	13	70,444,536	70,451,412	6,876
559	13	71,170,616	71,187,686	17,070
560	13	73,527,064	73,546,036	18,972
561	13	73,546,675	73,574,553	27,878
562	13	74,876,460	74,877,016	556
563	13	87,580,492	87,732,309	151,817
564	13	95,862,954	95,864,309	1,355
565	13	101,131,358	101,185,606	54,248
566	13	101,744,103	101,745,478	1,375
567	13	104,201,097	104,203,640	2,543
568	13	104,734,657	104,736,352	1,695
569	13	109,177,164	109,203,852	26,688
570	13	110,143,424	110,148,369	4,945
571	13	110,285,017	110,360,210	75,193
572	13	110,512,099	110,531,531	19,432
573	13	111,250,585	111,303,484	52,899
574	13	112,541,067	112,542,692	1,625
575	13	114,694,855	114,724,317	29,462
576	13	115,684,513	115,685,411	898
577	13	118,198,423	118,226,410	27,987
578	13	118,327,963	118,338,845	10,882
579	14	3,200,632	7,671,143	4,470,511
580	14	9,476,924	9,491,919	14,995
581	14	11,851,066	11,874,015	22,949
582	14	13,703,652	13,703,878	226
583	14	13,832,594	13,842,014	9,420
584	14	17,144,372	17,180,428	36,056
585	14	31,420,361	31,420,623	262
586	14	34,491,963	34,505,348	13,385
587	14	34,935,044	34,947,005	11,961
588	14	35,539,377	35,543,834	4,457
589	14	36,416,179	36,417,134	955
590	14	36,600,804	36,600,995	191
591	14	37,935,152	37,946,976	11,824
592	14	40,544,167	40,564,409	20,242
593	14	40,716,609	40,737,506	20,897
594	14	40,897,017	40,992,496	95,479
595	14	41,640,656	41,648,076	7,420

No.	Chr	Start [bp]	End [bp]	Size [bp]
596	14	42,076,755	42,953,331	876,576
597	14	44,396,801	45,349,904	953,103
598	14	52,484,180	52,492,450	8,270
599	14	63,523,410	63,543,436	20,026
600	14	63,715,836	63,731,412	15,576
601	14	68,685,551	68,694,460	8,909
602	14	72,880,516	72,895,559	15,043
603	14	72,957,542	72,959,141	1,599
604	14	73,243,966	73,249,111	5,145
605	14	74,318,558	74,331,581	13,023
606	14	75,621,182	75,623,938	2,756
607	14	78,207,014	78,207,745	731
608	14	79,921,672	79,935,942	14,270
609	14	81,762,359	82,272,046	509,687
610	14	83,692,252	83,699,784	7,532
611	14	84,107,263	84,127,489	20,226
612	14	84,464,875	84,610,363	145,488
613	14	85,098,924	85,109,651	10,727
614	14	90,380,187	90,380,247	60
615	14	91,461,859	91,492,733	30,874
616	14	95,445,940	95,528,057	82,117
617	14	97,780,779	97,832,155	51,376
618	14	99,527,482	99,532,575	5,093
619	14	108,869,805	109,052,336	182,531
620	14	110,067,383	110,117,892	50,509
621	14	110,191,067	110,226,475	35,408
622	14	111,421,090	111,489,633	68,543
623	14	112,786,859	112,786,924	65
624	14	116,640,642	116,643,475	2,833
625	14	122,006,064	122,006,350	286
626	15	18,654,064	18,701,020	46,956
627	15	18,713,339	18,756,200	42,861
628	15	19,835,128	19,869,085	33,957
629	15	20,002,200	20,069,823	67,623
630	15	21,134,231	21,172,655	38,424
631	15	21,563,129	21,834,835	271,706
632	15	22,146,459	22,192,021	45,562
633	15	22,457,663	22,478,262	20,599
634	15	25,938,508	25,938,536	28
635	15	26,971,755	26,975,305	3,550
636	15	29,502,036	29,545,764	43,728
637	15	33,880,442	33,900,991	20,549
638	15	42,106,513	42,112,059	5,546
639	15	46,239,982	46,247,063	7,081
640	15	47,636,509	47,639,595	3,086
641	15	47,861,366	47,886,626	25,260

No.	Chr	Start [bp]	End [bp]	Size [bp]
642	15	47,894,162	47,942,137	47,975
643	15	48,458,300	48,477,647	19,347
644	15	54,022,603	54,023,121	518
645	15	55,025,921	55,026,265	344
646	15	56,628,058	56,711,813	83,755
647	15	57,135,310	57,181,123	45,813
648	15	57,340,168	57,347,478	7,310
649	15	57,941,561	57,943,509	1,948
650	15	59,688,211	59,688,516	305
651	15	59,826,344	59,837,575	11,231
652	15	59,995,445	60,044,261	48,816
653	15	66,051,348	66,054,407	3,059
654	15	67,155,975	67,185,571	29,596
655	15	68,444,814	68,498,293	53,479
656	15	91,559,592	91,567,072	7,480
657	15	95,128,952	95,144,563	15,611
658	15	97,858,331	97,859,240	909
659	15	100,148,252	100,195,778	47,526
660	16	32,184,109	32,184,127	18
661	16	36,257,364	36,334,363	76,999
662	16	39,667,623	39,667,660	37
663	16	44,159,384	44,159,604	220
664	16	45,375,511	45,390,941	15,430
665	16	62,626,563	62,633,214	6,651
666	16	70,097,687	70,137,600	39,913
667	16	72,099,380	72,103,464	4,084
668	16	82,784,724	82,800,887	16,163
669	16	83,059,531	83,101,057	41,526
670	16	90,821,219	90,821,219	0
671	17	3,865,865	3,901,219	35,354
672	17	4,743,771	4,743,805	34
673	17	6,255,961	6,909,183	653,222
674	17	7,098,601	7,157,189	58,588
675	17	13,259,210	13,301,725	42,515
676	17	13,398,037	13,649,185	251,148
677	17	21,378,620	21,419,945	41,325
678	17	23,102,933	23,283,132	180,199
679	17	27,427,669	27,585,674	158,005
680	17	30,582,926	31,058,945	476,019
681	17	31,987,684	31,988,529	845
682	17	32,776,807	32,785,160	8,353
683	17	33,066,096	33,073,239	7,143
684	17	33,712,337	33,713,456	1,119
685	17	34,521,273	34,521,839	566
686	17	34,644,200	34,650,995	6,795
687	17	35,482,411	35,482,653	242

No.	Chr	Start [bp]	End [bp]	Size [bp]
688	17	35,565,259	35,576,419	11,160
689	17	36,151,872	36,151,991	119
690	17	36,167,127	36,248,347	81,220
691	17	36,257,749	36,302,789	45,040
692	17	41,139,041	41,176,614	37,573
693	17	43,655,463	43,661,943	6,480
694	17	43,822,177	43,822,413	236
695	17	45,324,397	45,349,233	24,836
696	17	47,888,395	47,889,838	1,443
697	17	49,818,440	49,818,487	47
698	17	50,132,851	50,143,591	10,740
699	17	50,703,622	50,708,249	4,627
700	17	52,525,043	52,562,891	37,848
701	17	53,145,663	53,184,954	39,291
702	17	54,423,215	54,423,500	285
703	17	69,208,113	69,208,347	234
704	17	70,419,780	70,420,015	235
705	17	70,731,388	70,734,298	2,910
706	17	72,689,319	72,703,908	14,589
707	17	74,806,574	74,808,253	1,679
708	17	76,673,848	76,684,159	10,311
709	17	80,443,846	80,449,220	5,374
710	17	82,353,226	82,354,184	958
711	17	85,125,658	85,126,027	369
712	17	87,411,269	87,421,277	10,008
713	17	88,952,743	88,963,711	10,968
714	17	92,827,951	92,923,001	95,050
715	18	8,199,910	8,205,008	5,098
716	18	11,268,641	11,308,509	39,868
717	18	12,384,760	12,387,394	2,634
718	18	28,685,988	28,686,474	486
719	18	32,594,220	32,604,842	10,622
720	18	43,568,830	43,609,197	40,367
721	18	44,715,384	44,733,855	18,471
722	18	44,814,127	44,831,000	16,873
723	18	57,820,265	57,902,448	82,183
724	18	59,506,767	59,507,938	1,171
725	18	69,835,601	69,836,287	686
726	18	70,602,756	70,623,157	20,401
727	18	71,609,676	71,611,282	1,606
728	18	72,536,401	72,559,030	22,629
729	18	72,714,633	72,727,773	13,140
730	18	74,314,441	74,314,504	63
731	18	74,681,698	74,696,062	14,364
732	18	74,750,012	74,750,945	933
733	18	75,257,879	75,261,870	3,991

No.	Chr	Start [bp]	End [bp]	Size [bp]
734	18	85,052,526	85,055,530	3,004
735	19	7,348,368	7,349,675	1,307
736	19	8,566,372	8,598,321	31,949
737	19	9,210,938	9,398,238	187,300
738	19	11,666,254	11,674,336	8,082
739	19	12,220,912	12,308,914	88,002
740	19	13,926,464	13,952,598	26,134
741	19	14,845,431	14,846,370	939
742	19	15,223,352	15,236,075	12,723
743	19	18,618,198	18,644,452	26,254
744	19	19,959,182	19,972,780	13,598
745	19	20,020,406	20,021,069	663
746	19	22,260,383	22,278,255	17,872
747	19	26,846,010	26,846,087	77
748	19	33,386,117	33,438,568	52,451
749	19	33,521,544	33,634,022	112,478
750	19	34,662,998	34,681,285	18,287
751	19	35,071,034	35,142,532	71,498
752	19	35,148,473	35,148,919	446
753	19	38,127,355	38,132,440	5,085
754	19	44,133,553	44,133,654	101
755	19	44,222,802	44,223,055	253
756	19	50,825,237	50,868,798	43,561
757	19	52,231,855	52,248,556	16,701
758	19	52,346,092	52,353,968	7,876
759	19	58,755,311	58,769,822	14,511
760	19	60,848,615	60,849,582	967
761	X	132,892,320	132,962,355	70,035
762	X	147,048,432	147,056,301	7,869
763	X	154,298,124	154,298,522	398
764	X	166,341,476	166,428,718	87,242