

Table S1. List of 1611 CNVs regions analyzed. Location in the canine genome (in CanFam2) and the reference where the region was identified as CNV.

Id	Location	Nicholas et al 2009	Nicholas et al 2011	Chen et al 2009	Nicholas et al 2011b*	Control
1	chr1:7659258-7685115	1	0	0	1	0
2	chr1:15383000-15433000	0	0	0	1	1
3	chr1:15622923-15641362	0	0	0	1	0
4	chr1:17028737-17049272	0	0	0	1	0
5	chr1:19280766-19389071	0	0	1	0	0
6	chr1:26658693-26672654	0	0	0	1	0
7	chr1:27081367-27101856	0	0	0	1	0
8	chr1:27689981-27728640	0	1	0	1	0
9	chr1:28637185-28651382	0	0	0	1	0
10	chr1:28741708-28774713	0	1	0	1	0
11	chr1:30845204-30861811	0	0	0	1	0
12	chr1:32761783-32800255	0	1	0	1	0
13	chr1:33574200-33590460	0	0	0	1	0
14	chr1:43628850-43673566	0	1	0	1	0
15	chr1:44540004-44555203	0	0	0	1	0
16	chr1:46735977-46756513	0	0	0	1	0
17	chr1:53314209-53332483	0	0	0	1	0
18	chr1:58374583-58388605	0	0	0	1	0
19	chr1:59729895-59744110	0	0	0	1	0
20	chr1:59932647-59950197	0	0	0	1	0
21	chr1:59957851-59977386	0	0	0	1	0
22	chr1:60496517-60512605	0	0	0	1	0
23	chr1:61731954-61751501	0	0	0	1	0
24	chr1:62878468-62901251	0	0	0	1	0
25	chr1:64182758-64197008	0	0	0	1	0
26	chr1:66101746-66118074	0	0	0	1	0
27	chr1:66799863-66856988	0	1	0	1	0
28	chr1:68993035-69013347	0	0	0	1	0
29	chr1:69337580-69355902	0	0	0	1	0
30	chr1:71791767-71815413	0	0	0	1	0
31	chr1:72605352-72629541	1	0	0	0	0
32	chr1:75143671-75165349	0	0	0	1	0
33	chr1:75721894-75743567	0	0	0	1	0
34	chr1:77236298-77256256	0	0	0	1	0
35	chr1:78056944-78176123	1	0	0	1	0
36	chr1:78214715-78251568	1	0	0	0	0
37	chr1:78266301-78283886	0	0	0	1	0
38	chr1:80539028-80556301	0	0	0	1	0
39	chr1:82564821-82580119	0	0	0	1	0
40	chr1:84602417-84619744	0	0	0	1	0
41	chr1:87468936-87483131	0	0	0	1	0
42	chr1:91402045-91420264	0	0	0	1	0
43	chr1:94251848-94268251	0	0	0	1	0
44	chr1:95904579-95918782	0	0	0	1	0
45	chr1:97837108-97862211	0	0	0	1	0
46	chr1:99031985-99064045	0	0	0	1	0
47	chr1:100206591-100224997	0	0	0	1	0
48	chr1:104590912-104613831	0	1	0	1	0
49	chr1:104811883-104828323	0	0	0	1	0

50	chr1:104914544-105079782	0	1	0	0	0
51	chr1:105196217-105226299	0	0	0	1	0
52	chr1:105636540-105667700	0	0	0	1	0
53	chr1:105731316-105751532	0	0	0	1	0
54	chr1:105809893-105848142	0	1	0	1	0
55	chr1:105928012-105942317	0	0	0	1	0
56	chr1:106071301-106093839	0	0	0	1	0
57	chr1:106151996-106173446	0	0	0	1	0
58	chr1:106217333-106231354	0	0	0	1	0
59	chr1:106975904-107149173	1	0	0	0	0
60	chr1:107159760-107442965	1	1	0	1	0
61	chr1:107459055-107477741	0	0	0	1	0
62	chr1:107558390-107589442	0	1	0	1	0
63	chr1:107719005-107733181	0	0	0	1	0
64	chr1:108107502-108126036	1	0	0	0	0
65	chr1:108154205-108172475	1	0	0	0	0
66	chr1:108881250-108919537	1	0	0	1	0
67	chr1:109797183-109815579	0	0	0	1	0
68	chr1:110233510-110247811	0	0	0	1	0
69	chr1:110880346-110941958	1	0	0	0	0
70	chr1:111613968-111642803	0	1	0	1	0
71	chr1:111959282-111977077	0	0	0	1	0
72	chr1:112987649-113007101	0	0	0	1	0
73	chr1:113340933-113364404	0	0	0	1	0
74	chr1:114099203-114115596	0	0	0	1	0
75	chr1:114631409-114718134	1	1	0	1	0
76	chr1:114912020-114927292	0	0	0	1	0
77	chr1:115156798-115178662	0	0	0	1	0
78	chr1:115208422-115234438	0	0	0	1	0
79	chr1:115260471-115329604	0	0	0	1	0
80	chr1:115412042-115472278	1	1	0	1	0
81	chr1:115971283-115989519	0	0	0	1	0
82	chr1:117010703-117024841	0	0	0	1	0
83	chr1:119398855-119423536	0	0	0	1	0
84	chr1:120002222-120021539	0	0	0	1	0
85	chr1:120216872-120236307	0	0	0	1	0
86	chr1:121253029-121286091	0	0	0	1	0
87	chr1:121367360-121396431	0	0	0	1	0
88	chr1:121580654-121596996	0	0	0	1	0
89	chr1:121812079-121830453	0	0	0	1	0
90	chr1:123351166-123371826	0	0	0	1	0
91	chr1:123462572-123486226	0	0	0	1	0
92	chr1:123700987-123717466	0	0	0	1	0
93	chr1:124611126-124629338	0	0	0	1	0
94	chr1:125485244-125500485	0	0	0	1	0
95	chr2:6937752-7344511	1	1	0	1	0
96	chr2:7465432-8002404	1	1	0	1	0
97	chr2:8067467-8671097	1	1	0	1	0
98	chr2:8690906-8897261	1	1	0	1	0
99	chr2:9195149-9215457	1	0	0	0	0
100	chr2:9250664-9270777	1	0	0	0	0
101	chr2:9289070-9341263	1	0	0	1	0

102	chr2:9346941-9664062	1	0	0	1	0
103	chr2:10668800-10688296	0	0	0	1	0
104	chr2:10832545-10847840	0	0	0	1	0
105	chr2:12859189-12879789	0	1	0	1	0
106	chr2:16344231-16383006	1	0	0	1	0
107	chr2:16609941-16682417	1	0	0	1	0
108	chr2:17384236-17409701	0	1	0	1	0
109	chr2:19322578-19337960	0	0	0	1	0
110	chr2:20393148-20442004	1	1	0	1	0
111	chr2:20533007-20547177	0	0	0	1	0
112	chr2:20735044-20765084	1	1	0	1	0
113	chr2:20879135-20963539	0	1	0	1	0
114	chr2:21064053-21272262	1	1	0	1	0
115	chr2:24576426-24590515	0	0	0	1	0
116	chr2:26022033-26099460	1	1	1	1	0
117	chr2:26597057-26618101	0	1	0	1	0
118	chr2:32087247-32106773	0	0	0	1	0
119	chr2:33001971-33020446	0	0	0	1	0
120	chr2:38745009-38783072	1	1	0	1	0
121	chr2:38801450-38848052	0	1	0	1	0
122	chr2:39084100-39107277	1	0	0	0	0
123	chr2:39215152-39234408	0	1	0	1	0
124	chr2:39808519-39862903	0	0	1	0	0
125	chr2:45313786-45331432	0	0	0	1	0
126	chr2:48673677-48690945	0	1	0	1	0
127	chr2:49389395-49403677	0	0	0	1	0
128	chr2:49675101-49729636	0	1	1	1	0
129	chr2:50269550-50369550	0	0	0	0	1
130	chr2:54746452-54763754	0	0	0	1	0
131	chr2:55923786-55946502	0	1	0	1	0
132	chr2:59176253-59191703	0	0	0	1	0
133	chr2:60302292-60596222	1	1	0	0	0
134	chr2:60748726-60770490	1	0	0	0	0
135	chr2:63717840-63733934	0	0	0	1	0
136	chr2:65677798-65693102	0	0	0	1	0
137	chr2:66666072-66683567	0	0	0	1	0
138	chr2:67315587-67329803	0	0	0	1	0
139	chr2:68148519-68186928	1	0	0	0	0
140	chr2:68406274-68424835	0	0	0	1	0
141	chr2:70859864-70875179	0	0	0	1	0
142	chr2:72207268-72223660	0	0	0	1	0
143	chr2:72345433-72360746	0	0	0	1	0
144	chr2:73666480-73680700	0	0	0	1	0
145	chr2:74086211-74102310	0	0	0	1	0
146	chr2:76152533-76167744	0	0	0	1	0
147	chr2:79579670-79593973	0	0	0	1	0
148	chr2:79706845-79725195	0	0	0	1	0
149	chr2:80727050-80756805	0	1	0	0	0
150	chr2:82686402-82700522	0	0	0	1	0
151	chr2:82896397-82913662	0	0	0	1	0
152	chr2:83156387-83175916	0	0	0	1	0
153	chr2:83389857-83406141	0	0	0	1	0

154	chr2:83557615-83575017	0	0	0	1	0
155	chr2:84970506-84989964	0	0	0	1	0
156	chr2:85419745-85436022	0	0	0	1	0
157	chr2:85844001-85871057	1	0	0	0	0
158	chr2:86045773-86084071	0	0	0	1	0
159	chr2:86444251-86460556	0	0	0	1	0
160	chr2:86689359-86716448	1	1	0	1	0
161	chr2:86809122-87032410	1	1	1	1	0
162	chr3:3035595-3054185	1	0	0	0	0
163	chr3:11491027-11512259	1	0	0	0	0
164	chr3:15527958-15543350	0	0	0	1	0
165	chr3:15963943-15980085	0	0	0	1	0
166	chr3:20408514-20425866	0	0	0	1	0
167	chr3:20755751-20775177	0	0	0	1	0
168	chr3:24344541-24363999	0	1	0	1	0
169	chr3:25552440-25566633	0	0	0	1	0
170	chr3:26051916-26151916	0	0	0	1	1
171	chr3:26906990-26922200	0	0	0	1	0
172	chr3:30551123-30569520	0	0	0	1	0
173	chr3:30625661-30645222	0	0	0	1	0
174	chr3:33558565-33573230	0	0	0	1	0
175	chr3:34147139-34446301	1	1	0	1	0
176	chr3:34480078-34505701	0	0	0	1	0
177	chr3:36091319-36106467	0	0	0	1	0
178	chr3:36499571-36517160	0	0	0	1	0
179	chr3:38570956-38600036	1	0	0	0	0
180	chr3:39327351-39381771	0	1	0	1	0
181	chr3:48273124-48373124	0	0	0	0	1
182	chr3:51348214-51369154	0	0	0	1	0
183	chr3:52417499-52437033	0	0	0	1	0
184	chr3:54220968-54235231	0	0	0	1	0
185	chr3:54487175-54504622	0	0	0	1	0
186	chr3:54525671-54542096	0	0	0	1	0
187	chr3:54667835-54685056	0	0	0	1	0
188	chr3:54738262-54753502	0	0	0	1	0
189	chr3:55730442-55752171	0	0	0	1	0
190	chr3:56411806-56437854	0	0	0	1	0
191	chr3:57859183-57875499	0	0	0	1	0
192	chr3:59398705-59413009	0	0	0	1	0
193	chr3:60003863-60018016	0	0	0	1	0
194	chr3:60430431-60451911	0	0	0	1	0
195	chr3:61162303-61180735	0	0	0	1	0
196	chr3:64324102-64342360	0	0	0	1	0
197	chr3:69705871-69724320	0	0	0	1	0
198	chr3:70576673-70593025	0	0	0	1	0
199	chr3:71156303-71175694	0	0	0	1	0
200	chr3:71427491-71464942	1	1	0	1	0
201	chr3:71925082-71944747	0	0	0	1	0
202	chr3:71956663-71981542	0	0	0	1	0
203	chr3:72050603-72075362	0	0	0	1	0
204	chr3:74227292-74354522	0	1	0	0	0
205	chr3:74637875-74653037	0	0	0	1	0

206	chr3:74943417-74966259	0	0	0	1	0
207	chr3:75330892-75347103	0	1	0	1	0
208	chr3:76343002-76374076	0	1	0	1	0
209	chr3:77052929-77074565	0	0	0	1	0
210	chr3:84938901-84954398	0	0	0	1	0
211	chr3:89639311-89654708	0	0	0	1	0
212	chr3:90017648-90032351	0	0	0	1	0
213	chr3:92398093-92419610	0	1	0	1	0
214	chr3:93638750-93658328	0	1	0	1	0
215	chr3:94380307-94402996	0	0	0	1	0
216	chr4:3098903-3149905	0	1	0	1	0
217	chr4:4093733-4115163	0	0	0	1	0
218	chr4:5340132-5355410	0	0	0	1	0
219	chr4:6012868-6033281	0	1	0	1	0
220	chr4:11019949-11035203	0	0	0	1	0
221	chr4:13099421-13125085	0	1	0	1	0
222	chr4:13457039-13471935	0	1	0	1	0
223	chr4:15272536-15287761	0	0	0	1	0
224	chr4:18914276-18948422	0	1	0	1	0
225	chr4:19801539-19827525	0	1	0	1	0
226	chr4:21137148-21200806	0	0	1	0	0
227	chr4:26270379-26284584	0	0	0	1	0
228	chr4:30495780-30595780	1	0	0	0	1
229	chr4:31146500-31168045	0	0	0	1	0
230	chr4:32780995-32807116	0	0	0	1	0
231	chr4:33835234-33851601	0	0	0	1	0
232	chr4:35062142-35078546	0	0	0	1	0
233	chr4:35270211-35284595	0	0	0	1	0
234	chr4:36165454-36180610	0	0	0	1	0
235	chr4:37007720-37028160	0	0	0	1	0
236	chr4:39775616-39792985	0	1	0	1	0
237	chr4:40101162-40119640	0	1	0	1	0
238	chr4:40291238-40355985	0	1	0	1	0
239	chr4:41170228-41187667	0	0	0	1	0
240	chr4:44002925-44018103	0	0	0	1	0
241	chr4:44692595-44709701	0	0	0	1	0
242	chr4:51004846-51018996	0	0	0	1	0
243	chr4:51841860-51861494	0	0	0	1	0
244	chr4:53488500-53588500	0	0	0	0	1
245	chr4:57679302-57743303	0	0	1	0	0
246	chr4:59827159-59846670	0	1	0	1	0
247	chr4:61441171-61463512	1	0	0	1	0
248	chr4:61615878-61632165	0	0	0	1	0
249	chr4:62280725-62301200	0	0	0	1	0
250	chr4:63542354-63627370	0	0	1	1	0
251	chr4:65733662-65751092	0	0	0	1	0
252	chr4:66066703-66086199	0	1	0	1	0
253	chr4:66243787-66259004	0	0	0	1	0
254	chr4:67702004-67718239	0	0	0	1	0
255	chr4:69745893-69763241	0	0	0	1	0
256	chr4:70688966-70720060	0	1	0	1	0
257	chr4:71606943-71622110	0	0	0	1	0

258	chr4:73578094-73595558	0	0	0	1	0
259	chr4:73773301-73790457	0	0	0	1	0
260	chr4:77200642-77214817	0	0	0	1	0
261	chr4:77649573-77679587	0	1	0	1	0
262	chr4:78667758-78681984	0	0	0	1	0
263	chr4:80044081-80058146	0	0	0	1	0
264	chr4:80704204-80719407	0	0	0	1	0
265	chr4:81111133-81130524	0	0	0	1	0
266	chr4:85396521-85415056	0	0	0	1	0
267	chr4:86654851-86676432	0	0	0	1	0
268	chr4:87620723-87637929	0	0	0	1	0
269	chr4:89280530-89295926	0	0	0	1	0
270	chr4:89522399-89539561	0	0	0	1	0
271	chr4:89716460-89732654	0	0	0	1	0
272	chr4:90657700-90680209	0	0	0	1	0
273	chr4:91215881-91229914	0	0	0	1	0
274	chr5:2996081-3074982	1	1	0	1	0
275	chr5:4300227-4314579	0	1	0	0	0
276	chr5:11240988-11259250	0	0	0	1	0
277	chr5:11734973-11750705	0	0	0	1	0
278	chr5:13118625-13137250	0	0	0	1	0
279	chr5:14549542-14570136	0	0	0	1	0
280	chr5:15858158-15872445	0	0	0	1	0
281	chr5:16383332-16399634	0	0	0	1	0
282	chr5:18950931-18969283	0	0	0	1	0
283	chr5:25390148-25406345	0	0	0	1	0
284	chr5:26086151-26102433	0	0	0	1	0
285	chr5:28879694-28901980	0	1	0	1	0
286	chr5:31040478-31062529	0	0	0	1	0
287	chr5:31095735-31111975	0	0	0	1	0
288	chr5:32833617-32856245	0	0	0	1	0
289	chr5:33061557-33083734	1	0	0	0	0
290	chr5:33098635-33112663	0	0	0	1	0
291	chr5:34093139-34175180	0	0	1	0	0
292	chr5:38499340-38516797	0	0	0	1	0
293	chr5:38726264-38742753	0	0	0	1	0
294	chr5:38843379-38857542	0	0	0	1	0
295	chr5:40574428-40589826	0	0	0	1	0
296	chr5:41795848-41809946	0	0	0	1	0
297	chr5:42030918-42052339	0	0	0	1	0
298	chr5:42256289-42275914	0	1	0	1	0
299	chr5:44115860-44137322	0	0	0	1	0
300	chr5:44956842-44979505	0	1	0	0	0
301	chr5:46335506-46353958	0	0	0	1	0
302	chr5:47601449-47615750	0	0	0	1	0
303	chr5:49764928-49786381	0	0	0	1	0
304	chr5:49818962-49838363	0	1	0	1	0
305	chr5:52878803-52892905	0	0	0	1	0
306	chr5:53084589-53098882	0	1	0	1	0
307	chr5:57216555-57230850	0	0	0	1	0
308	chr5:59554851-59576500	0	0	0	1	0
309	chr5:61424520-61524520	0	0	0	0	1

310	chr5:61711614-61727986	0	0	0	1	0
311	chr5:62369977-62385237	0	0	0	1	0
312	chr5:68858135-68877436	0	0	0	1	0
313	chr5:70246459-70260744	0	0	0	1	0
314	chr5:72643311-72658594	0	0	0	1	0
315	chr5:75358999-75374210	0	0	0	1	0
316	chr5:78662688-78677966	0	0	0	1	0
317	chr5:81143006-81475905	0	1	1	1	0
318	chr5:83273029-83288164	0	1	0	1	0
319	chr5:83805336-83819678	0	0	0	1	0
320	chr5:84060003-84160003	0	0	0	0	1
321	chr5:84796587-84816756	0	0	0	1	0
322	chr5:86179277-86212449	0	0	0	1	0
323	chr5:86567046-86583391	0	0	0	1	0
324	chr5:87903603-87917871	0	0	0	1	0
325	chr5:88633863-88657358	0	0	0	1	0
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1610	chr38:26356402-26376070	0	0	0	1	0
1611	chr38:26560200-26576890	0	1	0	1	0

* refers to CNVs identified using the 2.1 million probe aCGH experiment of Nicholas et al. 2011, but that they did not choose to report because were low confidence CNV.

Table S3. List of primers and probes used in the qPCR validation

Gene	<i>PDE4D</i>	<i>CRTC3</i>	<i>SLC6A11</i>
Primer F	TTCTGGAGGGAAGCATTTTCA	CCGTCTGGAAGACATTGTGTGT	CCTGGCAGACAGCAGGTGTA
Primer Rev	GTATTGATAACTGGGATGTGACATGTT	GATGACTGAGGCAAGAGAGGAAA	GGTTGGAGATAGTGCCATTGTTT
TaqManProbe	6FAM –CATCTGGATGAGTCGAAG- MGBNFQ	6FAM –TGCGGGCTACCTGC- MGBNFQ	6FAM – CTTCAGTAGCCAGGTGAG- MGBNFQ

Figure S1. Histogram of the number of genes in 1,000 simulated sets of regions with the same number and size of regions as the dog-specific CNV regions. In red the number of genes in the dog-specific CNV regions (P -value= 0.844).

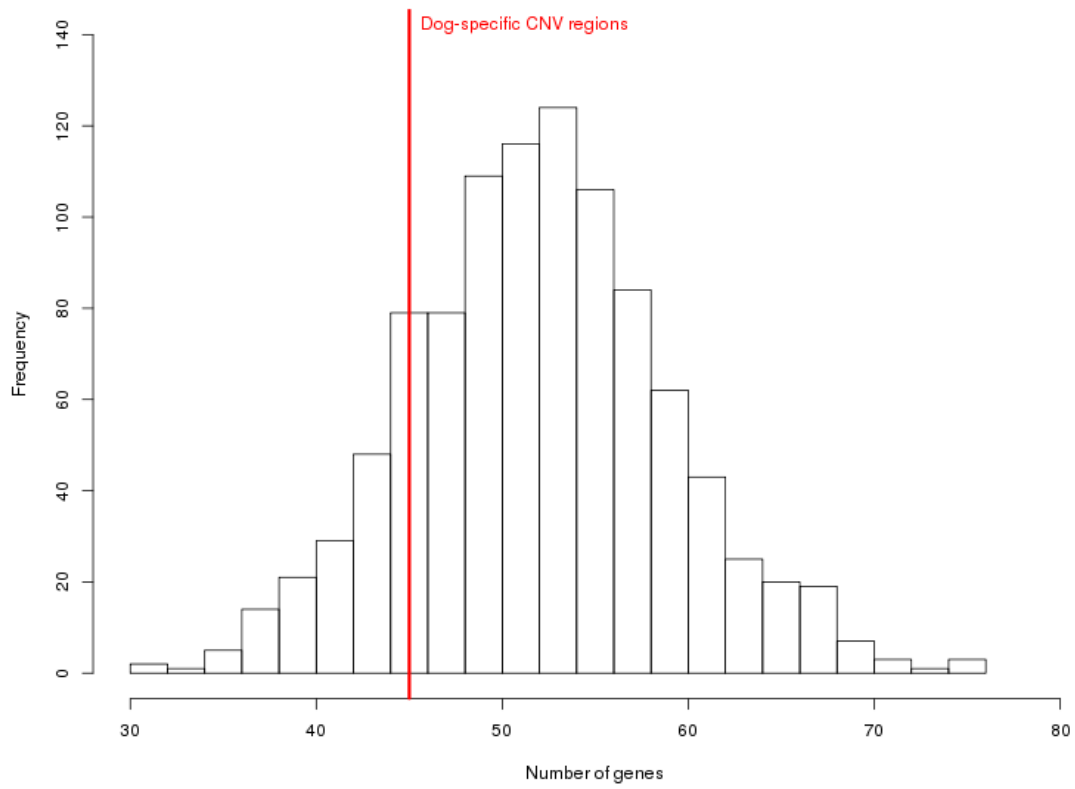


Figure S2. Histogram of the number of genes in 1,000 simulated sets of regions with the same number and size of regions as the CNV regions with only gains in wolves. In red, the number of genes in the CNV regions with only gains in wolves ($P < 0.001$).

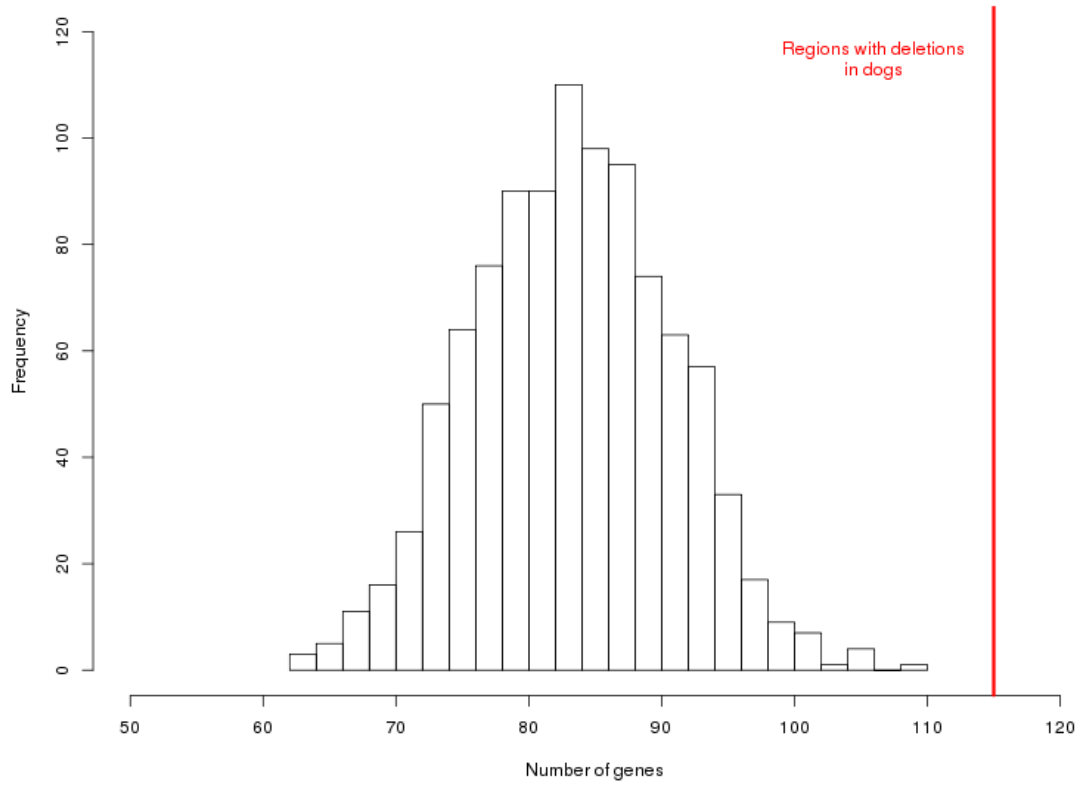


Figure S3. Enrichment analysis of GC-peaks in CNV breakpoints.

Observed to expected ratio of GC-peaks in breakpoints and in 400 bp steps away from the breakpoints.

