

Table S1. Feature scores and types of 1,341 selected SNPs from simulated models using 60 - 120 features from integrated SNP set.

Rank	SNP	Type	Feature score
1	MARC0094545	bo exclusive SNP	556.9968852
2	MARC0062413	null exclusive SNP	550.4988679
3	INRA0041863	null exclusive SNP	549.4268749
4	MARC0071306	null exclusive SNP	549.241863
5	DRGA0014613	null exclusive SNP	545.0320947
6	ASGA0059357	common SNP	538.4687839
7	ASGA0044469	null exclusive SNP	534.3807937
8	ALGA0107078	null exclusive SNP	527.6461344
9	ASGA0059934	null exclusive SNP	524.4277961
10	ASGA0043739	null exclusive SNP	499.8428694
11	ASGA0094610	null exclusive SNP	498.5534499
12	ASGA0102716	null exclusive SNP	481.8838644
13	H3GA0012998	null exclusive SNP	480.9732597
14	ASGA0059030	bo exclusive SNP	473.4437666
15	ALGA0120791	null exclusive SNP	471.5993122
16	M1GA0019188	null exclusive SNP	470.6189876
17	ASGA0098319	null exclusive SNP	470.3834535
18	ALGA0029883	null exclusive SNP	464.0939805
19	ALGA0054709	null exclusive SNP	457.1520733
20	ALGA0053963	null exclusive SNP	452.67106
21	ASGA0011544	null exclusive SNP	445.8524009
22	ASGA0005234	null exclusive SNP	427.1611471
23	ALGA0023631	null exclusive SNP	424.8430231
24	ASGA0067563	null exclusive SNP	420.9911012
25	ASGA0031773	null exclusive SNP	416.882922
26	MARC0050107	null exclusive SNP	416.0732165
27	ASGA0008845	null exclusive SNP	410.6035634
28	ALGA0011377	bo exclusive SNP	408.1557809
29	ALGA0051969	null exclusive SNP	402.1291408
30	DRGA0007569	null exclusive SNP	392.9231735
31	M1GA0020493	null exclusive SNP	389.7447572
32	MARC0011602	null exclusive SNP	389.7247431
33	H3GA0056478	null exclusive SNP	388.6159244
34	MARC0094338	null exclusive SNP	386.2660439
35	ALGA0004113	null exclusive SNP	384.544276
36	ALGA0001657	null exclusive SNP	381.2898415
37	MARC0092291	null exclusive SNP	379.5377007
38	ASGA0096149	null exclusive SNP	379.3975884
39	ALGA0097188	null exclusive SNP	379.1117505
40	ALGA0044536	null exclusive SNP	372.8420651
41	MARC0046290	null exclusive SNP	367.9455364
42	MARC0041038	null exclusive SNP	360.1042265
43	DRGA0001246	null exclusive SNP	359.2353771
44	H3GA0047693	null exclusive SNP	351.1012673
45	DIAS0002980	null exclusive SNP	350.7549846
46	DRGA0016667	null exclusive SNP	343.45861
47	MARC0093203	null exclusive SNP	343.4288028
48	ALGA0108533	null exclusive SNP	342.3103038
49	M1GA0007350	null exclusive SNP	341.3302022
50	H3GA0004278	null exclusive SNP	338.0140546
51	MARC0035716	null exclusive SNP	337.0756188
52	ASGA0093147	bo exclusive SNP	332.6755583
53	ALGA0095971	null exclusive SNP	332.0494604
54	ALGA0051607	null exclusive SNP	329.9696525
55	H3GA0005798	null exclusive SNP	309.6692082
56	ASGA0030822	null exclusive SNP	307.8343697
57	ALGA0118134	null exclusive SNP	306.2383001
58	ALGA0101388	null exclusive SNP	300.701045
59	ALGA0063912	null exclusive SNP	300.6458957
60	DBWU0000855	null exclusive SNP	293.5106301
61	ASGA0039296	null exclusive SNP	275.6092863
62	ALGA0106621	null exclusive SNP	272.9550785
63	ALGA0073323	null exclusive SNP	267.2075562

64	INRA0046537	null exclusive SNP	264.0678404
65	ALGA0035323	null exclusive SNP	263.637291
66	ASGA0018277	null exclusive SNP	261.2247324
67	MARC0014945	common SNP	259.2492735
68	MARC0076652	null exclusive SNP	257.3551486
69	ASGA0058210	null exclusive SNP	253.860783
70	ASGA0044735	null exclusive SNP	251.7970792
71	ASGA0038830	null exclusive SNP	251.6043668
72	ALGA0106175	common SNP	249.9258082
73	H3GA0052608	null exclusive SNP	239.4176844
74	ASGA0031992	null exclusive SNP	237.7475488
75	MARC0076586	null exclusive SNP	234.1180108
76	ASGA0033298	null exclusive SNP	229.0078064
77	ALGA0058889	null exclusive SNP	227.3656742
78	H3GA0010308	null exclusive SNP	223.8895441
79	ASGA0015507	null exclusive SNP	221.0806206
80	ALGA0016123	null exclusive SNP	219.2228577
81	ASGA0044945	null exclusive SNP	218.6029017
82	MARC0029540	null exclusive SNP	217.1473216
83	ALGA0065979	null exclusive SNP	211.7816903
84	ALGA0108818	null exclusive SNP	210.3842801
85	ALGA0058020	null exclusive SNP	207.8538918
86	MARC0066245	null exclusive SNP	206.959108
87	MARC0107533	null exclusive SNP	206.3150855
88	ALGA0065308	null exclusive SNP	200.1851501
89	H3GA0056091	null exclusive SNP	195.865876
90	DBWU0000460	null exclusive SNP	194.7516756
91	MARC0089106	null exclusive SNP	194.2206352
92	H3GA0048713	null exclusive SNP	190.408949
93	MARC0015804	null exclusive SNP	188.1677192
94	MARC0046428	null exclusive SNP	186.9967788
95	MARC0040747	null exclusive SNP	185.5195951
96	H3GA0051121	null exclusive SNP	183.3997698
97	INRA0017040	null exclusive SNP	173.5745661
98	ASGA0054611	null exclusive SNP	170.1164576
99	ALGA0025410	null exclusive SNP	168.9043805
100	H3GA0002403	null exclusive SNP	168.5113313
101	ALGA0037083	null exclusive SNP	167.9284589
102	ASGA0082602	null exclusive SNP	166.2793513
103	INRA0039355	null exclusive SNP	164.390914
104	ALGA0076346	null exclusive SNP	164.1024144
105	MARC0055808	null exclusive SNP	163.0745366
106	M1GA0006613	null exclusive SNP	162.5504608
107	ALGA0012570	null exclusive SNP	161.941731
108	ALGA0120388	null exclusive SNP	159.4402682
109	ASGA0035607	null exclusive SNP	154.7506872
110	ALGA0113214	null exclusive SNP	153.459844
111	ALGA0070877	null exclusive SNP	151.2090432
112	ASGA0006558	null exclusive SNP	150.781789
113	MARC0028256	null exclusive SNP	149.6838899
114	ASGA0038698	null exclusive SNP	148.024724
115	ALGA0047036	null exclusive SNP	144.9385144
116	ASGA0025326	null exclusive SNP	144.8854773
117	MARC0028659	null exclusive SNP	143.1991407
118	ASGA0022527	null exclusive SNP	141.6872185
119	SIRI0000117	null exclusive SNP	137.2414694
120	H3GA0056419	null exclusive SNP	135.3703108
121	ASGA0095922	null exclusive SNP	134.6455665
122	DRGA0012384	null exclusive SNP	134.3975956
123	MARC0033269	null exclusive SNP	133.859979
124	H3GA0050210	null exclusive SNP	133.7275932
125	ASGA0087707	null exclusive SNP	133.583462
126	ALGA0057772	null exclusive SNP	133.0963043
127	ALGA0081672	null exclusive SNP	127.408808
128	ASGA0100714	null exclusive SNP	123.5775527
129	MARC0017353	null exclusive SNP	123.4131531
130	ASGA0024488	null exclusive SNP	121.4513122
131	ASGA0075744	null exclusive SNP	121.2697632
132	MARC0080155	null exclusive SNP	120.6040522
133	ALGA0105151	null exclusive SNP	115.5106097

134	MARC0093314	null exclusive SNP	115.4605448
135	MARC0008049	null exclusive SNP	113.5842017
136	ALGA0034316	null exclusive SNP	112.5721034
137	DRGA0009451	null exclusive SNP	111.1852589
138	ALGA0013281	null exclusive SNP	110.5527964
139	ALGA0012286	null exclusive SNP	110.309134
140	ALGA0071129	null exclusive SNP	110.2803275
141	DRGA0006574	null exclusive SNP	109.3477291
142	MARC0096670	null exclusive SNP	108.1687443
143	ALGA0047477	null exclusive SNP	107.9514127
144	ASGA0064486	null exclusive SNP	107.364726
145	ASGA0089921	null exclusive SNP	107.3603545
146	ALGA0044449	null exclusive SNP	107.113244
147	ALGA0106880	null exclusive SNP	101.1496316
148	ALGA0108053	null exclusive SNP	101.023288
149	ASGA0059340	null exclusive SNP	99.65103148
150	ASGA0074415	null exclusive SNP	98.77333339
151	ALGA0080476	null exclusive SNP	96.82898993
152	ALGA0087403	null exclusive SNP	95.77611988
153	M1GA0021097	null exclusive SNP	95.61808455
154	ALGA0108541	null exclusive SNP	94.96686966
155	ALGA0045939	null exclusive SNP	94.92885296
156	H3GA0050590	null exclusive SNP	93.99502766
157	H3GA0026567	null exclusive SNP	92.89463294
158	ASGA0026782	null exclusive SNP	92.3882792
159	ASGA0054460	null exclusive SNP	91.62876698
160	ALGA0056636	null exclusive SNP	89.48260776
161	ALGA0014115	null exclusive SNP	88.55339205
162	ALGA0062923	null exclusive SNP	86.95752798
163	MARC0063250	null exclusive SNP	86.45060496
164	ALGA0033641	null exclusive SNP	84.95508437
165	MARC0008772	null exclusive SNP	83.55062417
166	H3GA0008042	null exclusive SNP	83.32257928
167	ALGA0089585	bo exclusive SNP	82.56675339
168	ASGA0022555	null exclusive SNP	79.22358902
169	ALGA0113652	null exclusive SNP	77.49526568
170	ASGA0025603	common SNP	76.82775712
171	ALGA0105272	null exclusive SNP	76.12508707
172	MARC0090129	null exclusive SNP	76.09696202
173	MARC0070485	null exclusive SNP	76.08327005
174	MARC0031990	null exclusive SNP	75.52352071
175	H3GA0009664	null exclusive SNP	74.71753294
176	ALGA0088203	null exclusive SNP	73.93194108
177	MARC0034969	null exclusive SNP	73.15580123
178	ALGA0087545	null exclusive SNP	71.97669862
179	ALGA0007158	null exclusive SNP	71.87640162
180	MARC0052388	null exclusive SNP	71.26107977
181	ALGA0123488	null exclusive SNP	70.3111905
182	INRA0026529	null exclusive SNP	69.87199312
183	ALGA0025268	null exclusive SNP	69.32409968
184	ALGA0025269	null exclusive SNP	69.13155816
185	ASGA0098169	null exclusive SNP	68.80602883
186	ALGA0065691	null exclusive SNP	67.29823818
187	ALGA0067341	null exclusive SNP	65.98589456
188	ASGA0084702	null exclusive SNP	65.97301447
189	ALGA0116778	null exclusive SNP	64.41825516
190	ALGA0071877	null exclusive SNP	63.98586915
191	MARC0051912	null exclusive SNP	63.61467041
192	ASGA0090140	null exclusive SNP	62.99371565
193	MARC0005838	null exclusive SNP	62.65769428
194	ASGA0040372	null exclusive SNP	62.06829205
195	H3GA0012646	null exclusive SNP	61.70941702
196	ALGA0091454	null exclusive SNP	61.07490311
197	ALGA0110973	null exclusive SNP	60.62462211
198	ALGA0084057	null exclusive SNP	59.60495131
199	ASGA0019083	null exclusive SNP	59.44024854
200	DRGA0017620	null exclusive SNP	58.69740071
201	ALGA0090255	null exclusive SNP	58.18577665
202	ALGA0079497	null exclusive SNP	58.07677921
203	MARC0066315	null exclusive SNP	58.06069079

204	MARC0002939	null exclusive SNP	56.62281468
205	ASGA0060392	null exclusive SNP	56.52359582
206	ASGA0044741	null exclusive SNP	55.62114155
207	ASGA0059757	null exclusive SNP	55.31166153
208	ALGA0115285	null exclusive SNP	54.77654735
209	ASGA0085124	bo exclusive SNP	53.46145864
210	ASGA0104182	null exclusive SNP	52.93916291
211	ALGA0047409	null exclusive SNP	52.44367418
212	ASGA0008596	null exclusive SNP	52.26572261
213	ALGA0086543	null exclusive SNP	51.52096511
214	ASGA0082732	null exclusive SNP	49.84836018
215	ASGA0019781	null exclusive SNP	49.39088719
216	MARC0059880	null exclusive SNP	49.18222936
217	INRA0025193	null exclusive SNP	49.00835526
218	ALGA0048583	null exclusive SNP	48.87474674
219	MARC0001261	null exclusive SNP	48.22845432
220	MARC0044358	null exclusive SNP	48.20539659
221	ALGA0081313	null exclusive SNP	47.77593382
222	ASGA0104094	null exclusive SNP	46.64265631
223	DRGA0013179	null exclusive SNP	45.45216252
224	ALGA0089634	null exclusive SNP	45.39632043
225	H3GA0027653	null exclusive SNP	45.30820452
226	M1GA0020100	null exclusive SNP	45.28553532
227	H3GA0027233	null exclusive SNP	45.25481358
228	ASGA0016334	null exclusive SNP	45.21916195
229	ALGA0095311	null exclusive SNP	45.14111081
230	H3GA0053564	null exclusive SNP	44.87088977
231	ASGA0005759	null exclusive SNP	44.69225879
232	H3GA0048142	null exclusive SNP	44.4667426
233	MARC0088815	null exclusive SNP	44.3233701
234	DRGA0016988	null exclusive SNP	43.79176028
235	H3GA0001895	null exclusive SNP	43.71143558
236	MARC0098539	null exclusive SNP	43.42339494
237	ASGA0059375	null exclusive SNP	42.57658781
238	ASGA0096469	null exclusive SNP	42.04136049
239	ASGA0007770	null exclusive SNP	41.15963375
240	INRA0029891	null exclusive SNP	41.05984953
241	ALGA0123631	null exclusive SNP	40.66500127
242	ASGA0010795	null exclusive SNP	40.51603572
243	ALGA0094584	null exclusive SNP	40.06816703
244	H3GA0020039	null exclusive SNP	39.99633029
245	ALGA0119235	null exclusive SNP	37.76260082
246	INRA0054603	null exclusive SNP	36.19775377
247	ALGA0061999	null exclusive SNP	35.92523869
248	ASGA0069628	null exclusive SNP	35.07371941
249	ALGA0120853	null exclusive SNP	34.75267213
250	ALGA0029016	null exclusive SNP	34.66674668
251	ALGA0057376	null exclusive SNP	34.17094824
252	ASGA0087213	null exclusive SNP	34.12420266
253	H3GA0053141	null exclusive SNP	33.80250976
254	ALGA0098607	null exclusive SNP	33.18513766
255	ASGA0089494	null exclusive SNP	32.71021288
256	H3GA0024400	null exclusive SNP	32.50481895
257	ALGA0072065	null exclusive SNP	32.37048637
258	ALGA0061364	null exclusive SNP	32.27147984
259	ASGA0101719	bo exclusive SNP	31.4292308
260	INRA0004582	bo exclusive SNP	30.6058961
261	ALGA0069649	null exclusive SNP	29.87201616
262	ASGA0040002	null exclusive SNP	29.45564319
263	INRA0046870	null exclusive SNP	29.43275798
264	H3GA0053937	null exclusive SNP	29.32658853
265	ASGA0004411	bo exclusive SNP	29.17374029
266	ASGA0073815	null exclusive SNP	28.87088424
267	ASGA0004129	null exclusive SNP	28.34146411
268	ALGA0033921	null exclusive SNP	28.25306835
269	ALGA0007303	null exclusive SNP	28.20216162
270	H3GA0019871	null exclusive SNP	28.13025103
271	CASI0009268	null exclusive SNP	27.77747158
272	ALGA0057938	null exclusive SNP	27.57130363
273	H3GA0004743	null exclusive SNP	27.44388249

274	MARC0063184	null exclusive SNP	27.00543651
275	INRA0008096	null exclusive SNP	26.96259146
276	ASGA0016369	null exclusive SNP	25.59392361
277	ASGA0104800	null exclusive SNP	25.33364182
278	ASGA0061708	null exclusive SNP	25.3325015
279	MARC0059131	null exclusive SNP	25.3065752
280	ALGA0068161	null exclusive SNP	25.25985164
281	MARC0029000	null exclusive SNP	25.13747349
282	MARC0048682	null exclusive SNP	25.13366553
283	ASGA0056435	null exclusive SNP	24.92171029
284	ASGA0039203	null exclusive SNP	24.83452384
285	ALGA0088794	common SNP	24.6013689
286	ALGA0094268	null exclusive SNP	24.19188329
287	ASGA0078642	null exclusive SNP	24.18934175
288	INRA0003823	null exclusive SNP	24.06870004
289	ALGA0108942	common SNP	23.95188154
290	ALGA0044364	null exclusive SNP	23.27976546
291	MARC0000247	null exclusive SNP	22.91726128
292	H3GA0046545	null exclusive SNP	22.78017521
293	ALGA0093727	null exclusive SNP	22.65859819
294	ALGA0021723	null exclusive SNP	22.53010933
295	ALGA0120374	null exclusive SNP	22.13240171
296	ALGA0059730	null exclusive SNP	21.82799188
297	ALGA0102988	null exclusive SNP	21.6468943
298	MARC0040285	null exclusive SNP	21.42595249
299	ALGA0113058	null exclusive SNP	21.18004618
300	ALGA0007430	null exclusive SNP	21.12833757
301	H3GA0006253	null exclusive SNP	20.70302824
302	ALGA0060411	null exclusive SNP	20.55774763
303	H3GA0018092	null exclusive SNP	20.51900051
304	ALGA0119129	null exclusive SNP	20.19297874
305	ASGA0016734	null exclusive SNP	19.80627596
306	ASGA0105128	common SNP	19.67122788
307	ALGA0003581	null exclusive SNP	19.21629317
308	ASGA0041945	null exclusive SNP	18.94453899
309	MARC0079512	null exclusive SNP	18.85498368
310	DRGA0016741	null exclusive SNP	18.70723716
311	ALGA0020541	null exclusive SNP	18.68885201
312	ASGA0106287	null exclusive SNP	18.65914095
313	ALGA0096892	null exclusive SNP	18.31560477
314	H3GA0053344	null exclusive SNP	18.23104236
315	H3GA0051271	null exclusive SNP	18.00727318
316	H3GA0026740	null exclusive SNP	17.89785307
317	M1GA0022894	null exclusive SNP	17.77766923
318	ASGA0006333	null exclusive SNP	17.61582964
319	MARC0070649	null exclusive SNP	17.49011831
320	ALGA0021640	null exclusive SNP	17.31237138
321	INRA0045343	null exclusive SNP	17.27768596
322	ASGA0054752	null exclusive SNP	17.27052865
323	MARC0079499	null exclusive SNP	16.88826493
324	ALGA0045095	null exclusive SNP	16.64444399
325	ALGA0124140	null exclusive SNP	16.30441242
326	ASGA0022968	null exclusive SNP	16.12366105
327	ALGA0056119	null exclusive SNP	15.87499537
328	ASGA0017629	null exclusive SNP	15.67593365
329	ASGA0018453	null exclusive SNP	15.31107972
330	ASGA0103337	null exclusive SNP	15.22968239
331	ALGA0111274	null exclusive SNP	15.14537191
332	MARC0020841	null exclusive SNP	15.14208685
333	MARC0007960	null exclusive SNP	15.08596956
334	INRA0005750	null exclusive SNP	15.08361307
335	ALGA0115880	null exclusive SNP	15.03490344
336	MARC0017899	null exclusive SNP	14.98299955
337	INRA0052240	common SNP	14.72913346
338	MARC0014079	null exclusive SNP	14.68773466
339	ASGA0053111	null exclusive SNP	14.53529641
340	MARC0063577	null exclusive SNP	14.50464779
341	ALGA0028712	null exclusive SNP	14.31975632
342	ALGA0067554	null exclusive SNP	14.272607
343	ASGA0016181	null exclusive SNP	14.20708864

344	ALGA0047524	null exclusive SNP	14.19055469
345	ALGA0058525	null exclusive SNP	13.93999415
346	H3GA0055493	null exclusive SNP	13.71014195
347	ASGA0061681	null exclusive SNP	13.65183052
348	ASGA0086385	null exclusive SNP	13.45177115
349	ASGA0092020	bo exclusive SNP	13.21377552
350	ALGA0054275	null exclusive SNP	12.94780666
351	ASGA0008283	null exclusive SNP	12.93643252
352	ASGA0066675	null exclusive SNP	12.74002787
353	H3GA0030332	null exclusive SNP	12.61995238
354	MARC0102034	null exclusive SNP	12.47034871
355	ALGA0117579	null exclusive SNP	12.26924942
356	ALGA0072415	null exclusive SNP	12.23767994
357	ASGA0059733	null exclusive SNP	12.2261568
358	ASGA0028018	null exclusive SNP	12.19027088
359	MARC0056987	null exclusive SNP	12.14599139
360	ALGA0037302	null exclusive SNP	12.09679412
361	MARC0014438	null exclusive SNP	12.0517809
362	ALGA0097914	null exclusive SNP	11.87750806
363	ASGA0072264	null exclusive SNP	11.86199219
364	MARC0095298	null exclusive SNP	11.83118838
365	ASGA0083973	null exclusive SNP	11.73470432
366	DIAS0004583	null exclusive SNP	11.27466969
367	MARC0030451	null exclusive SNP	11.2596917
368	MARC0028422	null exclusive SNP	11.24629054
369	ASGA0023010	null exclusive SNP	10.99778965
370	H3GA0046403	null exclusive SNP	10.97105137
371	M1GA0004043	null exclusive SNP	10.96907634
372	MARC0023721	null exclusive SNP	10.95071528
373	H3GA0045756	null exclusive SNP	10.53039774
374	MARC0083918	null exclusive SNP	10.49037036
375	H3GA0016131	null exclusive SNP	10.19572149
376	MARC0070785	null exclusive SNP	10.14800229
377	MARC0079654	null exclusive SNP	10.08377624
378	ASGA0018746	null exclusive SNP	10.07463607
379	DIAS0002847	null exclusive SNP	9.940538645
380	ALGA0073486	null exclusive SNP	9.66696341
381	ALGA0046500	null exclusive SNP	9.581762425
382	ASGA0059152	null exclusive SNP	9.534881498
383	ALGA0033245	null exclusive SNP	9.416593942
384	ASGA0004122	null exclusive SNP	9.254163858
385	ALGA0109739	null exclusive SNP	9.208961332
386	ALGA0045522	common SNP	9.050334015
387	ASGA0096526	null exclusive SNP	9.035446491
388	CASI0009926	null exclusive SNP	9.029805184
389	ALGA0124172	null exclusive SNP	9.024453464
390	MARC0048672	null exclusive SNP	8.968138007
391	MARC0026211	null exclusive SNP	8.959640872
392	MARC0089890	null exclusive SNP	8.842813523
393	MARC0027908	null exclusive SNP	8.801738974
394	ALGA0057882	null exclusive SNP	8.654069178
395	MARC0074610	common SNP	8.47692142
396	ASGA0039179	null exclusive SNP	8.428128587
397	ALGA0025638	bo exclusive SNP	8.287808825
398	DIAS0003190	null exclusive SNP	8.214247711
399	ASGA0068033	null exclusive SNP	8.21074711
400	ALGA0121556	null exclusive SNP	8.187754702
401	H3GA0037668	null exclusive SNP	8.183036678
402	H3GA0052944	null exclusive SNP	8.152928178
403	ASGA0046408	null exclusive SNP	8.117933407
404	ALGA0118488	null exclusive SNP	8.074553681
405	ASGA0010932	null exclusive SNP	8.051683959
406	H3GA0015497	null exclusive SNP	8.039445962
407	ALGA0060003	null exclusive SNP	8.006346292
408	ALGA0034318	null exclusive SNP	7.859228686
409	H3GA0016266	null exclusive SNP	7.79226405
410	ALGA0060681	null exclusive SNP	7.763157139
411	H3GA0012532	null exclusive SNP	7.706483797
412	H3GA0028781	null exclusive SNP	7.622984353
413	ALGA0054394	null exclusive SNP	7.609539985

414	DRGA0007119	null exclusive SNP	7.60070616
415	DRGA0015411	null exclusive SNP	7.586689591
416	ASGA0096586	null exclusive SNP	7.573864177
417	MARC0007414	common SNP	7.378139273
418	M1GA0015397	null exclusive SNP	7.33902771
419	ASGA0092479	null exclusive SNP	7.32677151
420	MARC0037857	null exclusive SNP	7.314444848
421	ASGA0092738	null exclusive SNP	7.284595691
422	ALGA0051919	null exclusive SNP	7.252359696
423	MARC0009689	null exclusive SNP	7.194623736
424	MARC0094764	null exclusive SNP	7.172282795
425	ALGA0038559	null exclusive SNP	7.125962841
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1239	ASGA0083665	null exclusive SNP	0.069309555
1240	MARC0010028	null exclusive SNP	0.068979485
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1246	ASGA0094024	null exclusive SNP	0.067590178
1247	ASGA0013175	null exclusive SNP	0.067307754
1248	MARC0036560	null exclusive SNP	0.062352703
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1250	ASGA0099046	null exclusive SNP	0.061220333
1251	MARC0092065	null exclusive SNP	0.061029878
1252	ALGA0053729	null exclusive SNP	0.060569715
1253	ALGA0117002	null exclusive SNP	0.06030659

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1264	ASGA0062434	null exclusive SNP	0.050998472
1265	M1GA0012194	null exclusive SNP	0.050930974
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1270	ALGA0088237	null exclusive SNP	0.043708409
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1274	ASGA0006540	null exclusive SNP	0.042666325
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1276	ALGA0042337	null exclusive SNP	0.042307754
1277	ALGA0123614	null exclusive SNP	0.042305288
1278	ALGA0021552	null exclusive SNP	0.042231638
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1282	MARC0006813	null exclusive SNP	0.041946779
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1284	DIAS0001219	null exclusive SNP	0.041876751
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1302	MARC0049020	null exclusive SNP	0.033474576
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1309	ALGA0115838	null exclusive SNP	0.025354918
1310	MARC0032954	null exclusive SNP	0.025281299
1311	DIAS0001281	common SNP	0.025281299
1312	ALGA0087581	null exclusive SNP	0.025213675
1313	H3GA0011619	null exclusive SNP	0.025070028
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1315	MARC0043817	null exclusive SNP	0.017175291
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1318	MARC0041765	null exclusive SNP	0.016877938
1319	ALGA0012736	null exclusive SNP	0.01680791
1320	ASGA0001039	null exclusive SNP	0.016806723
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1338	H3GA0022932	null exclusive SNP	0.008333333
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1340	H3GA0034462	null exclusive SNP	0.008333333
1341	ASGA0075178	null exclusive SNP	0.008333333

Figure S1. Population differentiation ($K=4$) inferred using (A) nullSNP and (B) boSNP.

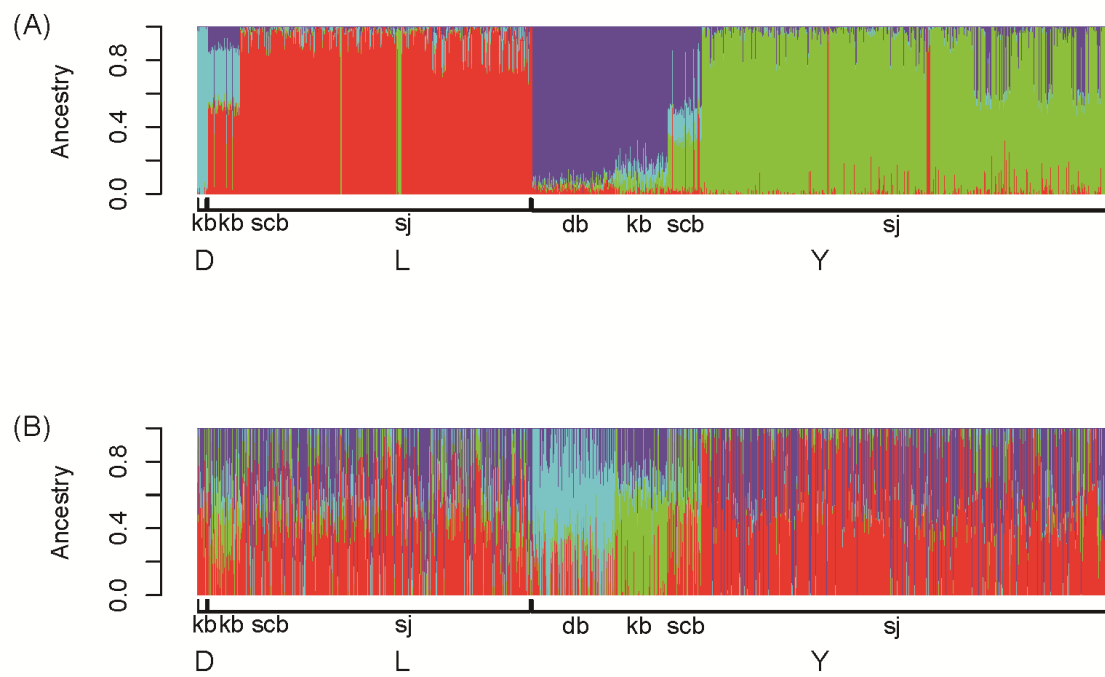


Figure S2. PCA plot using top 100 scored SNPs colored by (A) breed and (B) farm.

