

Additional file 1. Single nucleotide polymorphisms (SNPs) and deletion-insertion polymorphisms (DIPs) identified by comparison of the consensus sequence of black grouse MHC and the sequence of fosmid clone P2D1.

Position	BGMHC/P2D1
14855	G/A
14898	G/A
14901	A/G
14914	A/G
14915	C/T
14916	A/G
14925	A/T
14941	G/A
14951	C/T
14953	T/C
15036	T/C
15062	A/T
15068	A/G
15069	G/A
15083	G/A
15085	G/C
15090	C/G
15107	C/T
15127	T/G
15133	C/T
15137	T/C
15154	C/G
15157	A/T
15181	C/T
15182	A/G
15185	G/A
15266	G/A
15375	C/A
15403	A/G
15414	G/A
15448	T/C
15449	G/A
15500	T/A
15630	G/A
15638	T/A
15736	T/C
15753	G/T
15846	G/A
15858	A/G
15866	G/A
15899	G/A
15901	C/T
16018	C/A
16146	T/C
16174	G/A
16265	A/G
16274	C/T
16325	T/C

16404 T/C
16438 A/T
16477 A/G
16499 C/T
16638 C/T
16714 A/G
16810 G/A
16848 C/T
16856 C/T
16973 G/T
17011 A/G
17178 A/C
17215 A/G
17334 G/C
17347 A/G
17491 G/A
17581 T/C
17606 A/T
17707 C/T
17866 G/C
17966 C/T
18393 T/G
18494 T/A
18628 T/C
18762 A/C
18988 G/A
19101 C/T
19144 T/C
19185 G/A
19489 A/C
19652 T/A
19786 T/C
20310 T/C
21048 C/A
21217 A/G
21464 C/T
21862 T/C
22074 A/G
22214 G/A
22830 A/G
22927 G/A
22983 A/G
23149 G/A
23235 C/T
23437 G/A
23549 A/G
24790 A/G
24793 C/G
24799 G/T
24894 T/C
25059 T/C
25291 G/A
25314 A/C
25316 C/A

25343 A/G
25472 A/G
25507 C/T
25553 C/A
25558 T/C
25645 T/C
25741 A/G
25986 T/C
26089 G/A
26193 C/A
26195 G/A
26196 A/C
26198 T/C
26218 A/T
26223 G/A
26231 A/C
26239 A/G
26241 G/A
26251 T/C
26252 A/G
26253 T/C
26297 G/C
26338 A/G
26339 T/C
26360 T/C
26363 C/A
26364 C/A
26367 C/G
26372 C/G
26374 T/A
26383 C/T
26413 A/G
26417 T/C
26418 C/A
26419 G/T
26420 C/G
26425 C/A
26527 T/C
26528 G/C
26529 T/C
26531 G/C
26533 C/T
26537 C/A
26555 T/C
26599 T/C
26616 T/G
26709 C/A
26758 T/G
26772 C/T
26774 C/T
26790 G/C
26795 G/A
26877 T/C
26881 T/C

26913 A/G
26914 A/G
26926 C/T
26932 T/C
26935 C/T
26937 T/C
26950 A/T
26972 T/G
26979 C/T
26985 C/G
26992 C/T
26995 T/C
27027 T/G
27046 G/C
27058 T/A
27142 T/C
27159 C/T
27162 T/C
27171 T/G
27198 C/G
27200 G/A
27238 C/T
27255 C/G
27355 T/C
27829 A/G
28090 C/T
28112 C/G
28249 G/A
28476 C/T
28512 T/C
28572 A/C
28584 G/A
28644 C/T
28828 T/C
28980 C/T
29029 T/C
29037 C/T
29038 A/G
29040 A/C
29042 T/C
29044 C/T
29045 A/C
29046 G/A
29048 G/C
29050 C/T
29052 T/C
29055 T/C
29056 G/A
29058 C/A
29060 C/T
29065 A/G
29071 C/T
29074 C/T
29081 T/C

29084 G/A
29095 C/T
29098 T/C
29100 C/T
29101 T/C
29116 C/T
29118 T/C
29119 C/T
29157 A/G
29249 G/A
29509 A/T
29666 A/G
29742 T/A
29821 C/T
29839 A/G
29840 T/G
29841 G/C
29844 A/G
29845 T/A
29846 G/T
29855 T/A
29918 C/T
29939 G/C
29963 A/G
30158 C/T
30192 A/G
30194 A/G
30214 G/A
30549 A/T
31017 A/G
31936 C/A
31964 T/C
31974 T/C
31995 A/G
31997 A/G
32560 T/A
32689 C/T
32792 A/G
33037 T/C
33771 C/T
34543 G/A
35159 G/A
35488 G/A
35882 G/A
35906 T/C
36065 A/G
36318 G/A
36395 G/A
36412 C/T
36842 G/A
36866 C/T
36899 A/G
36911 T/C
36959 C/G

37116 A/C
37144 C/T
37307 G/A
37510 A/G
38287 G/T
38397 G/A
39565 G/A
40066 G/C
40070 G/T
40072 G/A
40080 T/C
42210 A/G
43601 T/C
44748 A/G

Position BGMHC/P2D1
15676 GAG/---
16123 CGACCTTTGCCCAACTT/-----
16486 AT/--
17216 A/-
17607 A/-
17766 ATC/---
17867 CCTGG/-----
22889 AAA/---
23236 -----/GAGGAAGAGGA
25562 CCCCCTCC/-----
25770 -----/GCTCCCGCTCCC
26944 -/T
27124 AC/--
27960 -/A
28275 C/-
28311 C/-
28836 C/-
29063 C/-
29102 -/A
29120 ACCTCCCCATGTCCCCACA/-----
29813 TGA/---
29861 --/AT
33324 GTCCC/-----
33613 GG/--
34413 --/TT
34563 --/AA
35182 CCAGGGCCTCCCC/-----
36161 CA/--
39259 -/C
39674 C/-
40067 ACA/---
42334 C/-
42440 CCC/---