

Table S1. All individuals included in the current study with their disease status, respective age (at euthanasia or exam), sex, breed, and genotype at each SNP. SNP positions are from EquCab2.0. A:PM=Affected Postmortem confirmed, U:PM=unaffected postmortem confirmed, U=unaffected clinically confirmed. ?=Unknown. S=Stallion, G=Gelding, M=Mare, FP=Female Pseudo. QH=Quarter Horse, WB=Warmblood, DWB=Dutch Warmblood, POA=Pony of the Americas, TB=Thoroughbred.

Status	Age (years)	Sex	Breed	SNP 1 (chr3:71,768,217 T > A) genotype	SNP 2 (chr3:71,770,084 T > C) genotype	SNP 3 (chr3:71,836,145 G > A) genotype	SNP 4 (ch3:71,917,591 C > T) genotype
A: PM	0.5	M	Andalusian	T/T	T/T	A/G	T/T
A: PM	6	G	Andalusian	T/T	T/T	A/G	T/T
A: PM	5	G	Andalusian	T/T	T/T	G/G	T/T
A: PM	7	G	Arabian	T/T	T/T	A/G	C/T
A: PM	1	M	DWB	T/T	T/T	A/G	C/T
A: PM	1	M	DWB	A/T	C/T	A/A	T/T
A: PM	11	S	Fell Pony	T/T	T/T	A/G	C/C
A: PM	1	M	Lusitano	T/T	T/T	G/G	C/T
A: PM	0.5	S	Morgan	A/T	C/T	A/A	T/T
A: PM	2	G	Paint	T/T	T/T	G/G	T/T
A: PM	1	S	QH	T/T	T/T	A/A	T/T
A: PM	1	S	QH	A/A	C/C	A/A	T/T
A: PM	3	M	QH	T/T	T/T	G/G	C/C
A: PM	1	G	QH	T/T	T/T	A/G	T/T
A: PM	1	S	QH	A/T	C/T	A/A	T/T
A: PM	4	G	QH	T/T	T/T	A/A	T/T
A: PM	7	G	QH	T/T	T/T	G/G	C/C
A: PM	1	G	QH	A/T	C/T	A/G	T/T
A: PM	2	G	QH	A/T	C/T	A/G	T/T
A: PM	1.5	M	QH	T/T	T/T	A/A	T/T
A: PM	1.5	M	QH	T/T	T/T	A/A	T/T
A: PM	4	G	QH	A/T	C/T	A/G	T/T

A: PM	4	G	QH	T/T	T/T	A/A	T/T
A: PM	0.6	M	QH	T/T	T/T	G/G	T/T
A: PM	1	S	QH/Lusitano	T/T	T/T	A/G	C/T
A: PM	2	S	TB	T/T	T/T	G/G	C/T
A: PM	2	S	TB	T/T	T/T	A/G	C/T
A: PM	4	G	TB/QH	T/T	T/T	G/G	C/T
A: PM	2	G	WB	A/T	C/T	A/A	T/T
A: PM	3	G	WB	T/T	T/T	A/A	T/T
A: PM	4	M	WB	T/T	T/T	A/G	C/T
U: PM	18	M	Paint	A/T	C/T	A/A	C/C
U: PM	0.5	FP	Percheron	T/T	T/T	G/G	T/T
U: PM	1	M	POA	T/T	T/T	A/G	C/T
U: PM	14	M	QH	A/T	C/T	A/A	T/T
U: PM	28	M	QH	A/T	T/T	A/G	T/T
U: PM	2	G	QH	T/T	T/T	G/G	C/T
U: PM	1	M	QH	T/T	T/T	G/G	C/T
U: PM	6	M	QH	A/T	C/T	A/A	T/T
U: PM	34	M	QH	T/T	T/T	A/A	C/T
U: PM	2	M	QH	A/T	C/T	A/A	C/C
U: PM	25	G	QH	A/T	C/T	A/A	T/T
U: PM	13	S	QH	T/T	T/T	A/A	T/T
U: PM	5	G	TB	T/T	T/T	G/G	C/C
U	?	M	Arabian	T/T	T/T	A/G	C/C
U	9	M	DWB	T/T	T/T	A/G	C/T
U	5	S	Friesian	T/T	T/T	G/G	T/T
U	1	S	Lusitano	T/T	T/T	G/G	C/T
U	1	M	Lusitano	T/T	T/T	A/A	T/T
U	7	M	Morgan	A/T	A/T	A/G	C/T

U	8	M	Paint	T/T	T/T	G/G	T/T
U	11	G	QH	T/T	T/T	A/A	C/T
U	18	M	QH	A/T	C/T	A/G	T/T
U	12	M	QH	A/A	C/C	A/A	T/T
U	6	G	QH	T/T	T/T	G/G	T/T
U	8	M	QH	A/T	C/T	A/G	T/T
U	8	M	QH	A/T	C/T	A/G	T/T
U	9	M	QH	A/T	C/T	A/G	T/T
U	7	S	QH	T/T	T/T	G/G	T/T
U	19	M	QH	T/T	T/T	A/A	T/T
U	9	M	QH	T/T	T/T	G/G	T/T
U	8	S	QH	A/T	C/T	A/A	T/T
U	8	S	QH	A/T	C/T	A/A	T/T
U	9	S	QH/TB	T/T	T/T	G/G	C/T
U	8	M	TB	T/T	T/T	A/G	C/T
U	7	M	TB	T/T	T/T	A/A	T/T
U	8	M	TB	T/T	T/T	A/A	T/T
U	15	S	TB	T/T	T/T	A/G	C/C
U	12	G	WB	T/T	T/T	G/G	C/T
U	6	M	WB	T/T	T/T	GG	T/T
U	13	M	WB	T/T	T/T	G/G	C/T
U	9	M	WB	T/T	T/T	G/G	T/T
U	5	M	WB	T/T	T/T	G/G	C/C
U	8	G	WB	T/T	T/T	G/G	T/T

Table S2. Primers and annealing temperatures for each SNP genotyped.

SNP Coordinate	Sequence	Annealing Temp. (°C)	Product Length (bp)
Chr3:71,768,217	F-AGTAGGATTCGACCCCTCCC	64.5	706
	R-GAATGCTCAGTCTGACCCCC	64.5	

Chr3:71,770,084	F-TCTGGAGGGGTCCCATCTT	62.4	753
	R-GCTTCTGAACAATGCCAGGG	62.4	
Chr3:71,836,145	F-	60.8	750
	AGTTCATCCAGATCCAGAAGCT	62.4	
Chr3:71,917,591	R-ATTAGGGCCATGTGCAGAGG	62.4	717
	F-TATAGTTCCTGCAGGGCACG	60.4	

Table S3. SNP positions in EquCab2.0 compared to EquCab3.0. The reference allele for the SNP in red changes in EquCab3.0. For this SNP reference in EquCab3.0 is A while alternate is G. Ref=Reference. Alt=Alternate.

EquCab2.0	EquCab3.0	Ref. (2.0)	Alt.
chr3:71,768,217	chr3:73,632,279	T	A
chr3:71,770,084	chr3:73,634,146	T	C
chr3:71,836,145	chr3:73,700,220	G	A
chr3:71,917,591	chr3:73,781,733	C	T