

Table S1: Primer sequences for the amplification of bovine *HMX1* sequence variants. Positions refer to BTA 6 of the UMD 3 genome assembly.

<i>HMX1</i>	Forward primer		Reverse primer		PCR product size (bp)
	Start	Sequence 5'-3'	Start	Sequence 3'-5'	
Exon 1	106871605	CCATAGAGCCCACCACAGAC	106872770	TCCTTGCTGGACAGTGATTG	1166
Exon 2	106868022	TTACATTCTGGCCGATCCTC	106869009	GGGACTGTTTCCTTGCTGTG	988
Highly conserved region	106719573	TGCCCTGAGAACTTTCCATC	106720504	CAGCGACCCTCTCTCTTTG	932/1008*
Primer for diagnostic PCR	106720053	CCGAGCTGCCTCTCTGGA	106720388	GAATCAGACAAGATCGCATCC	336/412*

*PCR product size in wild type animals/in mutants.