

Table S1 - Primer sequences used to analyse bovine TH and DBH genes.

Gene	Primer sequence	Amplicon size (bp)	Exon
DBH	F-5'-TGGCCGTCTTCCTGGTCATC-3'	321	I
	R-5'-GGGAGGGCGAGTGCAGAGAA-3'		
	F-5'-GGGGCTGTGCTGTGGGTGAC-3'	297	II
	R-5'-GGTGAGGGGCCCCGGGATGCT-3'		
	F-5'-CCGGGCTTGGGGCTGTGAGT-3'	296	III
	R-5'-GATGTGGTGCCGGGGGAAGC-3'		
	F-5'-GGTGCAGCCCTCCCATTTTA-3'	347	IV
	R-5'-CCAGCGGCGTAGAGGCAGTG-3'		
	F-5'-CACCTGCCCATCTGTCTTCT-3'	197	V
	R-5'-GCAGGCGGGGGCAGGTAA-3'		
	F-5'-GAGGGCGGCTGGGGGTCAT-3'	331	VI
	R-5'-GGGGGAGCGAGGTCACAGC-3'		
	F-5'-CTGACTGGGGAGGAGGAAG-3'	560	VII, VIII
	R-5'-GGGCACTCACCGGCTGGAC-3'		
	F-5'-TCTGGCCTCGTGTGATGA-3'	422	X
	R-5'-GTGGGTGGGGGCCTGAT-3'		
	F-5'-GATGGCACAAGAGATGAAGC-3'	349	XI
	R-5'-GCACGGCGGCACACCTG-3'		
F-5'-TTTGGTTTGGGAGAAGG-3'	702	XII	
R-5'-TGCACCCGTCACACTCAA-3'			
TH	F-5'CGGACCTCGCCGGCACCAT-3'	408	I
	R-5'GAGCACAGCCTCCCTTCAGC-3'		
	F-5'CGGGGCAGCCCCAGACG-3'	421	II
	R-5'CGGGAGGGGCCCTCTCCT-3'		
	F-5'AGGCCGCCTGGGGGTGACTG-3'	453	III
	R-5'GCCGAGGGCCGCCTCACCT-3'		
	F-5CAGCGGCCCCCTCCCTGTGT-3'	489	IV, V
	R-5'GGCCCGAGGATGGGGTGTGG-3'		
	F-5CCCCGAAGGGGCCTGGACT-3'	561	VI, VII
	R-5'GGCACCGCACCCCTTCAGGAA-3'		
	F-5CGCCCCCGCCCCAGCAGA-3'	490	VIII, IX, X
	R-5'GCCAAGGGTGCCATTGGTG-3'		
	F-5CGGGCCCCCAGCGGATCC-3'	545	XI, XII
	R-5'TCCCGGGTGGCCTGAGTCCA-3'		
	F-5AGTCGCCTCGGGTCCTGAGA-3'	463	XIII
	R-5'GGCCAGGAAGGACCCATCTT-3'		
F-5CAAGCTTATGGACAGAGATG-3'	509	XIV	
R-5'GGCCAGGGCCTGCATCTCGT-3'			