

Table S1. Sequences of primers used in experiment

	Sequence of Primers and Probes	Gene Bank Accession Number
qPCR		
<i>Per2</i>	Reverse – 5′ CATCTTCCACCGTCTCAAGCT 3′ Forward – 5′ AGCATCGGCCTCTAAGATGAAC 3′ Probe – 5′[6FAM] ACGTTAGCACGCACTTGACCTCGCTG [TAM]3′	NC_010457
<i>Sdha</i>	Reverse – 5′ CCAGTTGTCCTCCTCCATGTTT 3′ Forward – 5′ CTCTCTGAGGCCGGGTTTAA 3′ Probe – 5′[6FAM]TTACGAAGCTCTTTCCCACCAGATCACACA [TAM]3′	XM_021076930
Pyrosequencing (bisulfite converted DNA)		
0—79 bp	Reverse – 5′ TGGAAGGGATTATTTAGGAGGATA-3′ Forward – 5′ [BIO] TAACCCTCAAAACCCCCACC-3′ Sequencing – 5′GTTTTTATTGAGGAAT-3′	NC_010457
–1124—1185 bp	Reverse – 5′ [BIO] ACCAATTCCCAAAACCAAATC 3′ Forward – 5′ GGGTGTGTTAAGGTGTGATTG 3′ Sequencing – 5′ ATTTATGTTTGATGAAGTTGT 3′	
–2000—2054 bp	Reverse – 5′ [BIO] ATTTCTA ACAACCTATTTCTCCAA 3′ Forward – 5′ AGAGTAAGTAGTGGTTAGTATAATGT 3′ Sequencing – 5′ GTTTTATATATAGTTGG 3′	
–2402—2464 bp	Reverse – 5′ [BIO] CCCCTAAAACAAACCAAAACTAT 3′ Forward – 5′ GGATAGTATTTTAAATAGTTGGGGT 3′ Sequencing – 5′ AATTTGAAAGTATAAATG 3′	
Gibson Assembly		
long version 2541 bp	Reverse – 5′ GCTTTTTGCAAAAGCCTAGGGCCCCATCGCT 3′ Forward – 5′ AGAGGAACTTGGTTAGGTACGCTCAGAAAC 3′	
short version 1290 bp	Reverse – 5′ GCTTTTTGCAAAAGCCTAGGGCCCCATCGCT 3′ Forward – 5′ AGAGGAACTTGGTTAGGTACCTGCCAGCCC 3′	