**Supplementary data**

**Supplementary Table S1.** The primers used for real-time PCR.

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| Gene | Primer sequences |
| *GmAPX1* | Forward: AGCGCTAACAACGGTCTTGA  Reverse: GTGACCTCAACGGCAACAAC |
| *GmCAT1* | Forward: AGCTAGCGCAAAGGGTTTCT  Reverse: AAGGTTTCAGGGCTACCACG |
| *GmCAT2* | Forward: GCGCTAGTGCAAAGGGTTTC  Reverse: AAGGTTTCAGGGCTACCACG |
| *GmGSNOR1* | Forward: TAGGTGTTGCAGCATCAGGG  Reverse: TCTACAAGCCAAGGCACCTG |
| *GmGSNOR2* | Forward: TAGGTGTTGCAGCATCAGGG  Reverse: TCTACAAGCCAAGGCACCTG |
| *GmGSNOR3* | Forward: TAGGTGTTGCAGCATCAGGG  Reverse: TCTACAAGCCAAGGCACCTG |