**S2 Table. qPCR primer and probe sequences**

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| **Gene/Product** | **ERGO/GenBank#** | **Type** | **5'-3' sequence** |
| Peritrophin A | XcSigP-41404 | For | GGTCAAAAAGATGGAACAATGCTT |
| Rev | GGACATACTAAGAGCCACGCCT |
| FAM-BHQ1 | CTGACCCAGAGAACTGCCACCGATTC |
| Peritrophin B | XcSigP-32200 | For | CTTCTGGTGTCCAGGTGCACTT |
| Rev | GTTGGCCTGCTACCACAATCT |
| FAM-BHQ1 | TGCATATTCACATCTGTTCCTTTCTCCGTG |
| Attacin | Xc2751 | For | GTTGGTGGCGGTTTACAATATTCT |
| Rev | CATCCAGACTTGAACGACGATCT |
| FAM-BHQ1 | TGGCACCACCAGTTGCACCCA |
| Attacin 2 | Xc19158 | For | ATGCTAATTGGGCGCGTACTT |
| Rev | CCAACATCAGTGCCAAAACCT |
| FAM-BHQ1 | CGGCTTGCAATACACTCACGACAGGG |
| Relish | Xc69039 | For | TCTGGTCCAGCCACAATTTCTT |
| Rev | TTGCAGTGTGTATAATCCCCATTC |
| FAM-BHQ1 | CCCACTCGCATCATCTCGTCCTCAA |
| Catalase | Xc75242 | For | AGACTGATCAAGGCATCAAAAACCT |
| Rev | ACGGATTGAATAATCAGGATCAGTAC |
| FAM-BHQ1 | CCGATCGCGCCGACCAGC |
| Enolase(*eno*) | Xc39078 | For | GATTTGGTGACTGACTTAGGCCTT |
| Rev | CGAGACTCCTTTACCCATATATTGACTC |
| CFG-BHQ1 | AGCTGCCGTTCCTTCTGGTGCTTCC |
| Alpha-aminoadipic semialdehyde dehydrogenase(*aldh7a1*) | Xc19393 | For | CGTTTGCTGCGGTGCTT |
| Rev | TTGTTGACCAACGTGAGTGCTT |
| CFG-BHQ1 | CAGCTATGGCTAAAGACACGCGCGTC |
| Elongation factor 1 delta(*ef-1d*) | Xc74700 | For | ATTCACCAATCTTCCCAGAACTTC |
| Rev | GCTCGGCAACATATTAAAAATTCCT |
| CFG-BHQ1 | TCGAAGCCATAGCTGCAATACCATCCA |
| UDP-glucose:glycoproteinglucosyltransferase isoform X2(*uggt2*) | Xc50242 | For | AGTTCTAGGCGAAAAGGCCTT |
| Rev | CAGGTTGCGGTGAGTCATCTT |
| CFG-BHQ1 | TTTGTAGCTCGACACCATATCCAGAGAGCC |