

Table S1. Primer sequences of qRT-PCR.

| Gene ID | Primer | | Length (bp) | Tm. | Product size |
|-----------------|--------|-------------------------|-------------|-----|--------------|
| <i>SfGSTd1</i> | F | CAGTTAGACGAGGCCCTTGG | 20 | 60 | 83 |
| | R | TCGGCGATGGTGAGATTGTC | 20 | 60 | |
| <i>SfGSTd2</i> | F | AGGTGCAATAAGTGCTCAGTA | 21 | 60 | 107 |
| | R | GGAAGCCAAATAGAGTGCAAACA | 23 | 60 | |
| <i>SfGSTe1</i> | F | AACGGGCCATTGTAGACCAG | 20 | 60 | 177 |
| | R | CAAGCCAGGGTCCAGAGAAG | 20 | 60 | |
| <i>SfGSTe2</i> | F | ATGGTGAGACGGCATT CAGG | 20 | 60 | 88 |
| | R | AGCCAGGGTCCAGAGAAGAA | 20 | 60 | |
| <i>SfGSTe3</i> | F | GATTCAACGCGAACACTTCA | 20 | 60 | 230 |
| | R | TTTTCAATGCTGCGAAGAGA | 20 | 60 | |
| <i>SfGSTe4</i> | F | GCAATCTCTGGTCACAGCAA | 20 | 60 | 242 |
| | R | GGCTCCGGGGATATATCAAT | 20 | 60 | |
| <i>SfGSTe6</i> | F | CCCGGACTACCTGAAGTTGA | 20 | 60 | 199 |
| | R | GAGTATCCCGGTGTCGAAGA | 20 | 60 | |
| <i>SfGSTe7</i> | F | ATGCTTGGCCTACAAATGGA | 20 | 60 | 150 |
| | R | CTTCATTATGGCGTGGCTTT | 20 | 60 | |
| <i>SfGSTe8</i> | F | CGTCGGCATATTCTTCATCA | 20 | 60 | 231 |
| | R | AGATTTTCTGGGGACCTCGT | 20 | 60 | |
| <i>SfGSTe9</i> | F | ACAGGACAGCCATGCAATCA | 20 | 60 | 289 |
| | R | CGATATGTCGGCCAAGGTCA | 20 | 60 | |
| <i>SfGSTe10</i> | F | AGAAGCCATTGGTTTTGTGG | 20 | 60 | 162 |
| | R | TCTAACCAGGCAACCGTCTT | 20 | 60 | |
| <i>SfGSTe11</i> | F | GACACCTACGGAAGGGATGA | 20 | 60 | 234 |
| | R | ATCCAAGGCGATGAACTTTG | 20 | 60 | |

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|-----------------|---|------------------------|----|----|-----|
| <i>SfGSTe12</i> | F | AGTCGGGGTGAGTGAGACAC | 20 | 60 | 196 |
| | R | ATTGCCGTACATTGGATGGT | 20 | 60 | |
| <i>SfGSTe13</i> | F | GCTGACACCTACGGAAAGGA | 20 | 60 | 249 |
| | R | AATGGTGACAAGGTCCAAGG | 20 | 60 | |
| <i>SfGSTe14</i> | F | AAGCCATTGGTTTTGTGGAG | 20 | 60 | 175 |
| | R | TGAAACACTGGGACCAACAA | 20 | 60 | |
| <i>SfGSTe15</i> | F | AGAAGCCATTGGTTTTGTGG | 20 | 60 | 162 |
| | R | TCTAACCAGGCAACCGTCTT | 20 | 60 | |
| <i>SfGSTe16</i> | F | AGTCGGGGTGAGTGAGACAC | 20 | 60 | 196 |
| | R | ATTGCCGTACATTGGATGGT | 20 | 60 | |
| <i>SfGSTe17</i> | F | CACAAGATGGCGCCGATAC | 19 | 60 | 102 |
| | R | GTCCCTGACTTCGAGTTCCA | 20 | 60 | |
| <i>SfGSTo1</i> | F | TGGACATGAACCCCTATGGT | 20 | 60 | 193 |
| | R | CAAATCACCACGCTCTCAAA | 20 | 60 | |
| <i>SfGSTo2</i> | F | AGCGACCTCTCCTCCCTAAG | 20 | 60 | 242 |
| | R | CCAGGGCCAGATCATGTAGT | 20 | 60 | |
| <i>SfGSTs1</i> | F | GCCGCTGTGTACACCATCTA | 20 | 60 | 195 |
| | R | GACGAACTCCACCCAGGATA | 20 | 60 | |
| <i>SfGSTs2</i> | F | ATCGACCAGAACGTTGACCT | 20 | 60 | 170 |
| | R | ACATGGCCGTTGTTCTTGAC | 20 | 60 | |
| <i>SfGSTs4</i> | F | CATAGAGAGCATCGTATTCACC | 22 | 60 | 202 |
| | R | TACAAAGTCACCCCAGGAG | 19 | 60 | |
| <i>SfGSTs5</i> | F | TGGTTACGTCGCTTTAGGAAA | 21 | 60 | 112 |
| | R | GGCTGGGTACTTCTCTCCAA | 20 | 60 | |
| <i>SfGSTs6</i> | F | CTGAAGGGCAAGACTGCGTA | 20 | 60 | 201 |

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|----------------|---|----------------------|----|----|-----|
| | R | ACAATGTGTGCGCTTTGGTC | 20 | 60 | |
| <i>SfGSTm1</i> | F | CACAGTGAACAAGCGACTCG | 20 | 60 | 203 |
| | R | AAGCCATGCCCAGAACTTTG | 20 | 60 | |
| <i>SfGSTm2</i> | F | TCAACCGAGCACAAACAGAG | 20 | 60 | 161 |
| | R | GGCTCGGGTAGTACCTGTCA | 20 | 60 | |
| <i>SfGSTm3</i> | F | TCCAGTGCGCTGTGATTTCT | 20 | 60 | 175 |
| | R | CAGTTGCCTACCACGACAGT | 20 | 60 | |
| EF1 α | F | TGGTGACTCCAAGAACAACC | 20 | 60 | 175 |
| | R | CGGTGGATTTACCAGTACGA | 20 | 60 | |
| RPS18 | F | GACTGGTTCCTCAACAGGCA | 20 | 60 | 143 |
| | R | CCCCAGTAGTGACGCATACC | 20 | 60 | |