**Table S1 Primers used in this study.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Gene | Primer sequences | Tm (℃) | Product size (bp) | Primer use | Amplification efficiency, R2 |
| AplaCSP4 | F: TCCAGTAGAATTCATCCATTATG | 54.2 | 435 | Sequence verification |  |
| R: ACATAATCTATTTAGTTTGAATTGC | 53.0 |  |
| AplaCSP4 | F: GAGGAGCGCAATTGTTAGTTTGT | 60.7 | 307 | RT-PCR |  |
| R: CCATTCGTCTGGTTTCTTCTCGA | 63.2 |  |
| Actin | F: TTGGACTTCGAACAAGAAATGGC | 63.3 | 383 |  |
| R: GAAGCCAAGATAGATCCACCGAT | 61.5 |  |
| AplaCSP4 | F: AGGAGCGCAATTGTTAGTTTGT | 58.8 | 109 | qRT-PCR | 99.10%, 0.99 |
| R: TCGAATCTAGGTCTAGCGCTTC | 58.6 |
| β-actin | F: GGCATCACACCTTCTACAATGA | 57.6 | 130 | 98.00%, 0.99 |
| R: GTGTTGAAGGTTTCGAACATGA | 57.7 |
| EF1-α | F: CCTGGACACAGAGATTTCATCA | 57.3 | 138 | 97.09%, 0.99 |
| R: TAATGCATGTTCACGTGTTTGA | 57.6 |