**Table S1. Real-time PCR confirmation of differential expressed genes**

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| --- | --- | --- | --- | --- | --- |
| **Isotig ID** | **Nr-annotation** | **Primer** | **PCR product length** | **454 sequencing** **log2 (ovary/testis)** | **Real-time PCR** **log2 (ovary/testis)** |
| Isotig 05612 | cyclin B\* | F: TCCCCATGAACCGTCACATR: CCTGAAGAACGCTACCACCA | 210 | 14.96 | 16.54 |
| Isotig 18942 | mannose-binding protein | F: TTGAGTGTTGGTGTAAGTTTGGGTCR: TGGGAGGGTGTTCTGAATCTGT | 153 | 17.01 | 17.36 |
| Isotig 09525 | C-type lectin 6 | F: CAGCCAATATGTCACTATGCCGR: GGTAAACTGTCCTGCTCCAACTC | 135 | 17.00 | 16.12 |
| Isotig 07752 | tripsin, putative | F: TGCTCCATCCTCTGTCCGTR: CCCCAACTCAAGTGGTCCTT | 129 | 14.63 | 5.41 |
| Isotig 06833 | ABC transporter | F: ACAGGCGGTTTATGAGTTCCCR: TGGTGTCTTTCTGGTTGGTGC | 170 | 14.24 | 9.86 |
| Isotig 04786 | vitellogenin receptor\* | F: CCGTGTCACCCATCAAAGTCR: TGGCAGTGGACGAGATAAAGAC | 150 | 12.40 | 16.96 |
| Isotig 05587 | vitellogenin\* | F: ATCACGCTCAACGGCATCTTR: CTCAGAATCCAACGACCAATCA | 175 | 6.19 | 11.27 |
| Isotig 02457 | Cyclin-dependent kinases regulatory subunit 1\* | F: AGTGTTAGAAGCCCCAGAATGCR: GGTGAATGGTGAGGGGTAGG | 150 | 4.33 | 6.76 |
| Isotig 02065 | Titin | F: ACGTGGATCTCATCCTTAACTTCTR: ACCTTGCCCTGTGACCTGTAC | 88 | * 17.59
 | * 2.52
 |
| Isotig 03677 | C-type lectin | F: CACGCCAACCACCAACTATCR: TACCACAACGAACCCAACAAC | 159 | * 17.76
 | * 6.34
 |
| Isotig 05267 | histidine rich protein 2 | F: ACAGCTCTTCGGATTCGTAGTCR: TGAACAGAGGCATCAGGGTAAA | 100 | * 17.51
 | * 2.02
 |
| Isotig 09763 | merozoite surface protein 1 | F: TCCGTCCATCTCGACTGTGAR: CGACCTCGCCTTACCTAATCT | 142 | * 17.32
 | * 10.63
 |
| Isotig 18056 | mucin-2 precursor | F: TGGGAGGCGAAGGCAATCTR: CGTGTTGGTGCATGAAGGGTAC | 134 | * 16.38
 | * 7.97
 |
| Isotig 05989 | sporozoite surface protein | F: GCTGCGGAAGTTGAGGGAGTR: AGTCAGACCAGCCATCCACATA | 100 | * 14.88
 | * 6.28
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