

Table S1. Primers sequences designed for qRT-PCR.

Stage	Protein name	Gene name	Primer Sequence(5' to 3')	Product size (bp)
Plerocercoid	Kazal-type serine protease inhibitor domain protein	<i>SERJ2_L</i> <i>OCUS212</i> <i>20</i>	F-GCAGAGCGAGCGAAGAAT R-AAGGTGCCACAAAGAGC	153
	Proliferation-associated protein 2G4	<i>PA2G4</i>	F-GTCTATCGTCCTCAATCCG R-GGTCTTTCCCTCGCCAGT	115
	CATL	<i>CATL</i>	F-GCCTTATTGTTCCCTGGCTTAT R-TTCGCCTTGCTTCCTGTC	323
	Sarcoplasmic calcium-binding protein	<i>SCP</i>	F-AAGGCAAGATTACGAAGG R-TTGTAGTTTATTAGTGCTCCC	110
	Ras-related protein Rab-5C	<i>TR151277</i>	F-GAAGTCAGTCCCGAAATGG R-GCTCCTATGGTAGCCTCCT	140
Adult	Heat shock protein 70	<i>HSP70</i>	F-CCAGCAGGCAGATAAGGA R-GGCTTGGTACATCTTCGTTA	154
	Kelch-like protein 20	<i>KLH20</i>	F-CCTTACAGCCAGACGACG R-CAGCCGATTAGAACAGATGAG	245
	Twitchin	<i>Titin</i>	F-CTTTAATTTGGCTCGCTTGG R-GTAGTCGCCGTTCCGTGT	125
	Actin	<i>SERJ2_L</i> <i>OCUS111</i> <i>36</i>	F-GAGCCCAGAATGGAACCG R-GACCCTCCTCCTCAAACG	474
	Arrestin_C domain-containing protein	<i>SERJ2_L</i> <i>OCUS189</i> <i>81</i>	F-ACGCAAGAGCCGTACATT R-GGTTTGGATTCACCGAGTT	240
Reference gene	glyceraldehyde-3-phosphate dehydrogenase	<i>GADPH</i>	F-AGCAACCTCGTTGATGTCGT R-TGAATTGACCGTGGGTGGAG	97