**Table S1.** qRT-PCR primer details for biomineralization and control genes.

|  |  |  |  |
| --- | --- | --- | --- |
| **Gene name** | **Gene identifiera** | **Forward primer (5’-3’)** | **Reverse primer (5’-3’)** |
| **Biomineralization genes** |
| *c-lectin/pmc1* | LVA\_014662 | GAAGGTGCTAGTGGCGATCCT | TGTCTGAGGGCCGTTGCT |
| *c-lectin* | LVA\_021331 | AGCTGGCGAACCCAACAA | TCAACACTCATCTGCGCGTAGT |
| *cahb* | LVA\_0114119 | CCCGTCCCGAATCTTCAAG | CCAGGGTTGCGAATGATGA |
| *cara7la* | SPU\_012518 | CCACGGACAACCATGTCAATAA | TCTACTTTGGTCGTAGGAGCTCTGT |
| *P16* | SPU\_018408 | GCAGCGATGACTCGTCAGAAG | GCCAAAGGCCATACCACTCTT |
| *sm50* | SPU\_018811 | GTACCATCTTCCCAGAATCTAGGATT | AAGCTTCTCGCAAGACAACCA |
| *msp130* | LVA\_019583 | CTACCACACCGCTACCAGGAA | TCTGGGTGACTACGTAGCTCATG |
| **Control genes** |
| *cyclophilin-7* | SPU\_008305 | CCTCCTTCCACAGGGTTATCC | GTACCGTTGCCCCTGGTAAA |
| *rpl8* | SPU\_010692 | GCCAACAGGGCCATGGT | TTACGCTTGACCTTGTATTTGAAGTAG |
| *profilin* | SPU\_020197 | TGCAGGCGAGTAAGACAGCTATA | CTCCTTTATTCAAGTTCCCTTGCT |

**a** Gene identifiers from annotated genome of *S. purpuratus* and *L. variegatus* ([www.echinobase.org](http://www.echinobase.org)).