**S2 Table. Primers for detection of relative expression levels**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sequence number** | **Primers****name** | **Sequences (5’-3’)** | **Annotation** | **Reference** |
|  | G6PDH-F | TCAGAACAAGTTCGAGGGCGACAA | 6-phosphogluconate dehydrogenase,decarboxylating | (Yin et al, 2013) |
|  | G6PDH-R | TGAGGGCAATAGAGGGCTTGTTCA |
| VM1G\_09956 | Gvm2-Q-F | CAAAGAGCCCCATCACACAA | Guanine nucleotide-binding protein alpha-2 subunit | (Yin et al, 2015) |
| Gvm2-Q-R | AAGGTTCGTATCGGTAGCGTT |
| VM1G\_04248 | Gvm3-Q-F | CGACTACCTGCCCAACGAG | Guanine nucleotide-binding protein alpha-3 subunit |
| Gvm3-Q-R | GAATCCACTTCTTCCGCTCAC |
| VM1G\_01407 | VmAC-Q-F | GAACTACGCTTGCTGAACCTCT | Adenylate cyclase |
| VmAC-Q-F | TCCGCAGTCTAACACCGCTAA |
| VM1G\_00266 | VmPKA1-Q-F | GCTACAACGCAATCGCTAA | cAMP-dependent protein kinase catalytic subunit |
| VmPKA1-Q-R | CGAGTATTTCCCTTTGGTCT |
| VM1G\_08687 | VmPKA2-Q-F | ACCTCAAGCCCGAGAACCT | cAMP-dependent protein kinase catalytic subunit |
| VmPKA2-Q-R | AGTGCCCACCAGTCTACAGC |
| VM1G\_08329 | VmPKR-Q-F | CCCTCAAGCCTAATACCGA | cAMP-dependent protein kinase regulatory subunit |
| VmPKR-Q-R | AGAAATAGTCACCAGCATCACC |