Supplementary Table 1 Primers of signaling pathway related genes used in qRT-PCR

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| Gene | Primer sequences (5’-3’) | S/AS |
| *gapdh* | ACCAACTGTCTCGCTCCTCT | S |
| GAGGGTCCGTCAACAGTCTT | AS |
| *Sfufadd* | GGTAGTTTCTGGCGTGAT | S |
| ATCCTTTCTACGGCTTTT | AS |
| *Sfupgrp lb* | GGACGATAGAGGTTGAAGAA | S |
| TGGAAAGTTGTAGGGATGG | AS |
| *Sfurelish2* | GTTGGGCGATTTGTGC | S |
| ACGCTTGGTTGGCTCT | AS |
| *Sfuctl4* | GCATTTCGTTGCGACTAC | S |
| TGCTTCATCTCAGCCTCT | AS |
| *Sfuken* | GTCACGCCTCACCGAAA | S |
| CCGAGCACTGGCAACTG | AS |
| *Sfucecropin* | CGTGTCGTATCACCAGAG | S |
| TGAAGAATTTCCACCTTG | AS |
| *SfuRab-5B* | TCGCTCTCTCGCTTCCA | S |
| ATACCGCTGTTTTGCAC | AS |
| *SfuRor2* | GATGTGTGGGCTTATGGGG | S |
| ACCTGGGTGTGTTGTCTGG | AS |
| *Sfusocs2* | TAATGCCTAATCTTGTCC | S |
| TGTATGTGTGAGTGCCGA | AS |
| *Sfusocs4* | TCCTCCGAGACTCTGCC | S |
| CGGGGTCCTTGTAATGC | AS |
| *Sfusocs5* | TATTCTCTGTGTGTCCTTCCG | S |
| ACCTATTTAGTGGCCTTGCTA | AS |
| *Sfustat5B* | ACTGTCCGTTTACTGGT | S |
| TGGGTCTCGCTTTTTAG | AS |
| *Sfutab1* | GAGACACAGGTATCCCAAA | S |
| TCAGCACAGCATTATCATC | AS |
| *Sfucactus* | ATTACTTCCTTGCCGACACCAC | S |
| TTACCCTTCGCTTCAGTCACAT | AS |
| *Sfudif* | AGGCGGGACCCAAGTTATCT | S |
| GTACGCTGGCGTCTCGAAAG | AS |
| *Sfugloverin* | AACGGAGACAGCAGCAACC | S |
| CCATCACCATTTAGGGACA | AS |
| *Sfulysozyme* | CAAAGATTGGTGCAAGAAGG | S |
| AATAAGAGAAAGAGGTCGGC | AS |
| *Sfumyd88* | TAGAATGAGTGCTGAAGGG | S |
| TGAGAAGGAAGTCTGGCGA | AS |
| *Sfupell* | CGCTTGGAGGTCCAGAAGC | S |
| GCCGTGAATAAGGGGGGTA | AS |
| *Sfuspatzle* | TAGGACCTGTTGTCACCCACA | S |
| TCAGAATACCGAATGCTTTAT | AS |
| *Sfutoll3* | GAGGGACTTTCTTGTGGG | S |
| TTAGGTCTTCTCTGCGGG | AS |
| *Sfutoll6* | GTTTACAGATTTACCGTCCCT | S |
| TATTCGTTAGTTGGTTAGCAT | AS |
| *Sfutoll7* | TATGGATGCAACCGAGGTA | S |
| CATTCAAGCCAGCAAAAGT | AS |
| *Sfutoll18w* | TCTGGTTTGATTACGCTTTT | S |
| TGGAGTTCATTTTGGATTTT | AS |
| *Sfutollo* | CAAAGTAGTCTCGCTCCG | S |
| TTTCTTAATTCCCGCAGT | AS |
| *Sfutube* | TAAAAGGCACAGCAGAAGG | S |
| GCCAAGCCAAAGTCACAAA | AS |
| *Sfuattacin* | TGTTCAGAAACAAAGACA | S |
| TAAATCCAGTAGAAGGCT | AS |
| *Sfulebocin* | CCAAACAGGAGAACAGCG | S |
| ATGAGGATTGAAAGGCGG | AS |