### Table S1. Primers sequences used in this study.

| Gene name | Forward (5'→3') | Reverse (5'→3') |
|-----------|-----------------|-----------------|
| XM_038020758.1 123(Group 1) | AAGGCTTTGGCAAAAGGTCG | GAACGAGGATCCGTCGGAAG |
| XM_038021438.1-126(Group 2) | GTCTCCAGAGGCCACGTCAA | TCTGTTGGAGAACCCTGTCG |
| FJ265562.1-2511(Group 3) | GATCGACCAAAAAACCTCCAGA | GACCTCAGAGAGGCCGACTA |
| GU815090.1-123(Group 4) | AGCATAGTGTTGGTGCTC | CGCTGTTGGACCTCTTTAT |
| FJ265554.1-159(Group 5) | CGGGCTCGGCTAATGAAGTT | GGCTTTTGCACAGTCATC |
| U07847.1-13(Group 6) | AAATTTGCATAAGGAGCCTC | CGCTGACTTCATGTATTTCGA |
| XM_038017410.1-32(Group 7) | AGACTCAAGGATGCCAAGCTGT | UCUCCGGAAACCAUAUUGGTT |
| XM_038010567.1-1108(Group 8) | ATTTTTGTTGGTGCCAGGTC | AGAGTAAACTTGAAACCTTTCG |
| LOC110384916-227(Group 9) | GTTACCGCAGCTAACAAGCG | ACGATGGCGCAGACTTGTGAT |
| BmGRP-LP | CACTGCAACAGAAAGCTGT | CGCAATATGCCCGATCCGTAC |
| Bmspz-1 | GAGCGTTATGGGAGACGCAG | CCTGTTGCGTGAGCATATG |
| BmSOCS2 | GTGACAGACCCGTTGGCTAGG | GCACCGCGAAGTGTTGGACAC |
| BmAgo-2 | GAACGTGACTGAGGATCGC | GGGCAGGAAGAACCTCCTG |
| BmDicer-2 | AGTACCGCAGCTAACCCGGAGA | CGATACCGGCGGACCAACAA |
| Bm CPV vp1 | GTTCTCGAGCTGAACTACCA | TCGTTGCTTTGACGACAG |
| TIF-4A | GAATGGACCCTGGGATGCG | CTGACTGCTGTCAGTCG |
| vcDNA-S7 | GCAGCGCAAGCCGCA | AGTTCACGCCAATGT |

### Table S2. The siRNA sequences used in this study.

| Target genes | Sense (5'→3') | Anti-sense (5'→3') |
|--------------|---------------|-------------------|
| XM_038020758.1 123(Group 1) | CCAUAUGGUGUUCGGAGAT | UCUCCGGAACCAUAUUGGTT |
| XM_038021438.1-126(Group 2) | GGUCCUAUUACACCGCUUUTT | AAGCAGGUGUAAAGGACCTT |
Figure S1. The flowchart for the in vitro synthesis of vcDNA-S7. The specific primers carrying an NheI site were designed and then PCR was performed using a plasmid which contained the full-length cDNA of BmCPV S7 segment as a template (pIZT-CS7). The amplified product was further digested with NheI and then circularized to obtain vcDNA-S7, using T4 DNA ligase.