Table S1 Primers used in the study.

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| Purpose | Gene name | Sequence of Oligonucleotide (5’-3’) |
| RNAi(dsRNA) | BmSirt2 | F: taatacgactcactatagggAACTACCTCAACCACAGGCG |
| R: taatacgactcactatagggTGATGCAAATGGTTGCACTT |
| BmSirt4 | F: taatacgactcactatagggTTCCGAAACATAAACCACCC |
| R: taatacgactcactatagggTTTCAAAGGCCCTTCACACT |
| BmSirt5 | F: taatacgactcactatagggGGAGGGCTTTGGAGGAAATA |
| R: taatacgactcactatagggCATTGCATGTTCAGCTGCTT |
| BmSirt6 | F: taatacgactcactatagggCACACTGGAGCTGGCATAAG |
| R: taatacgactcactatagggAATGCCATTCTGCCATTAGC |
| DsRed | F: taatacgactcactatagggGAAGCTGAAGGTGACCAAGG |
| R: taatacgactcactatagggTGGTGTAGTCCTCGTTGTGG |
| qRT-PCR | BmSirt2 | F: ATTCGCCTCCCGGAAAAAGT |
| R: AGTTGTTGGCGGGACATTCT |
| BmSirt4 | F: TCGCGTGGAACAAGTCAGAA |
| R: AAACTGTGAGGCTTGATCCCA |
| BmSirt5 | F: TCAGTGGTATATCCTGCGGC |
| R: GTGGCCGGTGTTGGTTCTAT |
| BmSirt6 | F: TGAGCATATGTCTAGGTACAACACT |
| R: CATGTTTTGTTGGTTGTAGGTTGC |
| Rp49 | F: CAGGCGGTTCAAGGGTCAATAC |
| R: TGCTGGGCTCTTTCCACGA |
| Vp39 | F: CTAATGCCCGTGGGTATGG |
| R: TTGATGAGGTGGCTGTTGC |
| BmRelish | F: TTCGGTGGAATGGGTATCAT |
| R: GCTGAACTTCAAACGCACAA |
| BmCecA | F: GCCCAGGTGGAAACTCTTCA |
| R: GCTTGCCCTATGACGGCTAT |
| BmCecB | F: ATCCTTCGTCTTCGCTCTGG |
| R: ACGGATGTTCCTGCCCATTT |
| RT-PCR | BmSirt7 | F: ACACTGATGCATCTTCCCCA |
| R: AACCGATCTGCTAGCCTCCT |
| over-expression | BmSirt5 | F: GAGCTCATGTACCCATACGACGTCCCAGACTACGCTAGTTCAAGACAAT |
| R: GTCGACCTACTTATCGTCGTCATCCTTGTAATCGATCTTATCGTCGTCATCCTTGTAATCTCCCTTATCGTCGTCATCCTTGTAATCATCAGCCAGTGCTTGTGG |

The underline represents *Sac* I and *Sal* I.

The wavy line represents the sequence of 3×Flag tag.