Table S2. siRNA sequences of candidate genes

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| Gene name | SiRNA sequence |
| BMSK0002764 | GCAGGAATACTGTCTACAA |
| GCGATCAATGGATGTCATT |
| GCTGTTAATGTTGCCTCTA |
| BMSK0002763 | CCAAGAGCCAATTCTGCAA |
| CCAACAGAATTTGACGAAA |
| GCTGCTGATTATAGTCTAA |
| BMSK0002762 | GGATTCCGACGAAGAAGAT |
| GGACTTGGTGATGAATCTA |
| GGAGTTCAAATGGAACCAA |
| BMSK0002761 | GCTATTTACCAGACGAATA |
| GGATGTAATCAACCAAGTT |
| CCAAGCTACGTAGGAACTT |
| BMSK0002760 | GCAGATGCATCAAGCATTT |
| GCTTCAGAGTTCCTAGTAA |
| GCCAAACGACTACAACGTA |
| BMSK0002759 | GGAACCTTCTAAGCAACAA |
| GCCTACAGAGAAGAGAGTT |
| GCAACGGTTATCTGGATTT |
| KWMTBOMO02783 | GGTCTGTAGCAAATTCTAA |
| GCAGGCGATAATTATGAAA |
| CCGGTTCCTGTCAATTCTT |

Nucleotide sequence of 1232 bp inserted sequence. The underlined sequence, which has a length of 130 bp, has multiple copies in the silkworm genome. The remaining sequence, which has a length of 1102 bp, has only a single copy on the silkworm genome, which is derived from 11413374 bp to 11414475 bp of chromosome 5.

CATCGTTCCCAGCGCTCCAGGCTTTTTTCACTCATATTCTACATCCTTAGACACTTCCAATAAGTTAGTATTTTAGAAATTCTCTAGAAATCTTATATATGGCAAGACACCGTTTGCCGGGTCAGCTAGTAAATTGCGTGGACAGAGATTTTCATCACCTGAAGAAGCTGTGGACGCCTACAAAGCGGCCATTTTGGAGACCCCAACTTCCGAATGGAATGGTTGCTTCAATGATTGGTTCCATCCTATGGAAAAATGTCTCAAATTTCGCGGAGAATACTTCGAAAACCAATAAATACATTTTTAAATAGTAATGTTGTGTGACTTCGTTAATTCCCGAAATTTTCAGTGCCGCCCTCGTACTATACTAATACACAAACACATGTTAATTTTCAAGTCTAGTTCATAACTGATTTAGTATATTATCAACAACACTCGAAGAGAATAAAGTTAATATTTTTATTTATTTTTTATTTATTTATTGCTTAGATGGGTGGACGAGCTCACTGCCCACCTGGTGTCAAGTGGTTACTGGAGCCCATAGACATTTACAACGTAAATGCGCCACCCACTTTGAGATATAAGTTCTAAGATCTCAGTATAGTTACAACGGCTGCCCTACCCTTCAAACCGAAACGCACTACTGCTTCACGGCAGAAATAGGCAGGGCGATGGTACTTACCCGTGCGGACTCACAAGAGGTCCTACCACCAGTAAAATAATCACATTATAGACATTTAACTAAAAAAATTTGGAATAATATTCCATTAAGGGTATAAAAATCATTAATCTTATTTTAATATTCATAAGAAATAAGTTAAATAATAAATTCAAGCACACATAATTGAAATAAATAGAACTATAGGCGCCGCCGTATTGGCCTTGGCTGCTCTGACGAGCGCCTTTCACTTTATCCCTACTCCGCGGCCGACCGTCAGCGACATGCAACACAGACGAAAAAGTTTGAGACAATGTAATAAAAGTTTCACTTTAAATGTAGTATAATATAATTACTGTTAGGTTTGCGTTTTATATCCTATAGATTTCTTTACGGGGATAAGTACGACGTAATGGTACAGTCGAAATAGATGAATATATTTTGGCTGTATGGTGCCGCCTTAAAATAGCATCCCCCGATCTTTTCCCGAGGTTGTCGCAAATGCAACTAAAGGATTCACCGAAAAATACAGAGCAACATTTTCCGAGAAGTATACCAGCGTACTGCGATTGCC

Nucleotide sequence of 1845 bp inserted sequence. The underlined sequence, which has a length of 186 bp, has multiple copies in the silkworm genome. The highlighted sequence is *bmmar1* transposon.

AAAACATCGGCACAAGTCTATCCAGATACCATTCTTGAGAAGGTAGTGAAGCTCCTTAACAACACCATGTTCAATAATCAAGAATGGTCCTTCCAGCAAGACTCGGCGCCAGGTCATAAAGCTCGGTCTACGCAGTCTTGGTTGGAAACGAACGTTTCGGACTTTATCAGAGCTGAAGACTGGCCGCCCGCCCGGTCCGGGGTAGGGCGCCGGCTGTCAGCGGCAGGAGTTTTTAGTGAGGTTCGACACCCACATACCCCACCTGCCGTGCGGGTGGAGATCAGGCGATTTTCTACAGTGAAAAAAAAAAAAAATCTTACTAACATACAAGTAAATACTTAGTCTGGCCATAAATACTGTTACAATTAAAATAAACAAAATATTACATTTGAATTTGGAATCTTTCATTTTTATATGATTGCTCATTGAGTTTTCTCATTTTGGCGCCAATACATTGTACAATATTTTGCGATAATAAAATGAAGTGGGGTGATAAAGAGAACCGAATCGCTGTGATTGCATTACACAAAGTAGGTATGGAGCCAAATACAATTTTTAAAACTCTCCATACGCTTGGTATTAGTAAAATGTTTGTGTACCGGGCTATTAATAGGTGCAATGAGACCTCCTCTGTTTGTGACAGAAAAAGATCTGGCCGTCCACGTAGTGTTCGTACGAAAAAGGTGGTCAAAGCAGTAAGGGAAAGAATTCGAAGAAATCCTGTCCGAAAGCAAAAGATTTTATCTCGGGAGATGAAGATAGCACCTAGAACCATGTCGCGTATTTTAAAAGATTACTTAGGACTTGCAGCCTATAAGAGATGTACTGGTCATTTCTTAACTGATAATTTAAAAGAGAATAGGGTGGTAAAATCGAAACAACTACTGAAGCGGTACGCAAAGGGAGGTCATAGAAAAATTTTGTTTACGGATGAGAATTTTTTTACAATTGAGCAACATTTTAACAAACAAAATGACTGTATTTATGCTCAAAGCTCTAAGGAAGCTTCCCAATTAGTCGACAGAGAGCAACATGGGCGCTATCCGACTTCAGTGATGGTTTGGTGGAGTATTAGCTATGATGGAGTGACTGGGCCATACTTTTGTGAAAAAGGTATCAAAACATCGGCACAAGTGAATCAAGATACCATTCTTGAGAAGGTAGTGAAGCCCCTTAACAACACCATGTTCAATAATCAAGAATGGTCCTTCCAGCAAGGCTCGGCGCCAGGTCATAAAGCTCGGTCTACGCAGTCTTGGTTGGAAACGAACGTTTCGGACTTCATCAGAGCTGAAGACTGGCCGTCGTCTAGTCCCGATCTTAATCCGCTGGATTATGATTTATGGTCAGTTTTAGAGAGTACGGCTTGCTCTAAACGCCATGATAATTTGGAGTCCCTAAAACAATCCGTACGATTGGCAGTGAAAATTTTTCCCATGGAAAGAGTGCGTGCTTCTATTGATAACTGGCCTCAACGTTTAAAGGACTGTATTGCAGCCAATGGAGACCACTTCGAATAAGCTTTTTATACTTTAAATTGTTTTATATTTATGTATTAAACTAACACACTGTAAAAGTAATAAATGTTATTTGCCATAGATTTTTTTTTGTTTTTCTTTGTAACAGTATTTATGGCCAGACTAAGTATACAACTAATTATGGTCTCATTATTGTAAACTCAAACTGGTTCACAAACGCTGTCCCCTTCTGTGGCAAGGCTACAATAAATTGATACAATAAATATTTACGATTTTGTCATCGTAATTACTTTGAGTTCAAGCGGTATTCTCATCAGAATAAGCAATTACA1TAAATTCTCAGTGTTAAGTGGTTACCGAAGACATT