**Table S1**. Primers used for construction of disruption plasmids.

|  |  |
| --- | --- |
| AGO1PacI\_F GCC**TTAATTAA**GCCCAAGGAGAGAAAACGCA  AGO1KpnI\_R GTC**GGTACC**ACACTAACATCAACTTCGGC | Primers for amplifying upstream flanking fragment of *AGO1* |
| AGO1XbaI\_F CGG**TCTAGA**TAGAAAGATTAATCGTATAA  AGO1HindIII\_R CGC**AAGCTT**GCTGGCTTGACTATGCCCGT | Primers for amplifying downstream flanking fragment of *AGO1* |
| QDE-3PacI\_F CGC**TTAATTAA**ATCACCTTCGCAGTCGAGTA  QDE-3KpnI\_R GTC**GGTACC**GAAGCCGACGCAATTATACA | Primers for amplifying upstream flanking fragment of *QDE3* |
| QDE-3XnaI\_F CCG**TCTAGA**GTAGGAGGAGAGATCAATTG  QDE-3HindIII\_R GGC**AAGCTT**GACGAGCCTTGTTCCTGTTT | Primers for amplifying downstream flanking fragment of *QDE3* |
| QIPPacI\_F CCG **TTAATTAA**TTGAGGATGCAACTAAGCAA  QIPKpnI\_R CGC**GGTACC** CGCTGGTATTCTCTGCAAGGC | Primers for amplifying upstream flanking fragment of *QIP* |
| QIPXbaI\_FCCG**TCTAGA**ATGATGAATCCTCGTTTGGGC  QIPHindIII\_R CCC**AAGCTT**ATCGATAACAACCCCGGACAA | Primers for amplifying downstream flanking fragment of *QIP* |
| RDRP1PacI\_F CCG**TTAATTAA**ATGCGCGATAGTGGGTGAGA  RDRP1KpnI\_R GTC**GGTACC**GGCGACCGGCGCCAGTTGTG | Primers for amplifying upstream flanking fragment of *RdRP1* |
| RDRP1XbaI\_F GCG**TCTAGA**GTGAGGTCTCTTAGAGGTTC  RDRP1HindIII\_R GTC**AAGCTT**TTCAGTTGCTAACTACTTCA | Primers for amplifying downstream flanking fragment of *RdRP1* |
| DCL1PacI\_F CTC**TTAATTAA** AAAACCTGAGGTTACCATGC  DCL1KpnI\_R CTC **GGTACC** ATTGAGGCTGTATTTGTTCT | Primers for amplifying upstream flanking fragment of *DCL1* |
| DCL1XbaI\_F CGG**TCTAGA**AGTACTGCAGGGTATTTAGT  DCL1HindIII\_R CGG**AAGCTT**AATAAAAGACAACAACAGAAGG | Primers for amplifying downstream flanking fragment of *DCL1* |
| DCL2PacI\_F CCG**TTAATTAA**CAAGGATAAAAGCTGATTGT  Dcl2KpnI\_R GCC**GGTACC**CCTGATCTGCCGAAGCCCTC | Primers for amplifying upstream flanking fragment of *DCL2* |
| DCL2XbaI\_F GCC**TCTAGA**GTTGGAGATTTCTCCTCGTA  DCL2HindIII\_R GCC**AAGCTT**CTGGGACTGTGCCGAGGCCA | Primers for amplifying downstream flanking fragment of *DCL2* |
| AGO2PacI\_F GCG **TTAATTAA**TCTCATCGAGGTCATTTCAT  AGO2KpnI\_R CGC **GGTACC**CCAGAACAATGGCGTTGATG | Primers for amplifying upstream flanking fragment of *AGO2* |
| AGO2XbaI\_F CGG **TCTAGA**TGGTGACAGATGAGTCTGAA  AGO2XbaI\_R CGG **TCTAGA**GCTTTGATATAAACAATAAA | Primers for amplifying downstream flanking fragment of *AGO2* |
| RDRP4PacI\_F TCGTTAATTAA CAGAGGTCGGGTAAAACTATCT  RDRP4KpnI\_R CGTGGTACCATGTTCTTTATCCGGGTGGGCC | Primers for amplifying upstream flanking fragment of *RdRP4* |
| RDRP4XbaI\_F CCGTCTAGATTGTTTCTTTTGTAAATTTCGTAG  RDRP4HindIII\_R CGTAAGCTTTCCGGTGAGAAAACAACAGA | Primers for amplifying downstream flanking fragment of *RDRP4* |
| RDRP2PacI\_F CGCTTAATTAAGGTGGTTCTTATACCTTCGTTC  RDRP2KpnI\_R TCCGGTACCGCGATCTCTTCTCGTAGCG | Primers for amplifying upstream flanking fragment of *RdRP2* |
| RDR2XbaI\_F CGCTCTAGATTTCCAGCTTCTATGAGTGTGCAGTTG  RDR2HindII\_R GCCAAGCTTTCTCGGCGGATACTTGGCTGAT | Primers for amplifying downstream flanking fragment of *RdRP2* |
| RDR3PacI\_F TCGTTAATTAA CCCAGGCTTGGGCTGCATAGTG  RDR3KpnI\_R CGTGGTACC CGTTGAGGCAGGGCAAGACTGA | Primers for amplifying upstream flanking fragment of *RdRP3* |
| RDR3XbaI\_F CGC TCTAGA AACCTTTCAGGTCACTGAGC  RDR3HindIII reverse:GCC AAGCTTAGTAGCCTGGTCGTTGCGGAAC | Primers for amplifying downstream flanking fragment of *RdRP3* |