

Supplementary Table S1: The forward and reverse primer sequences of immune genes used for RT-qPCR. The primers used in the study were synthesized by MWG Eurofins.

Gene name	Reverse Primer Sequence	Forward Primer Sequence	References
Actin	GAAGCAAGAATTGACCC ACCAA	CCTAGCACCATCCACCAT GAA	<b>Galbraith et al. 2015</b>
RPS5	TAACGTCCAGCAGAATGT GGTA	AATTATTTGGTCGCTGGA ATTG	<b>Brito, McHale, and Oldroyd 2010</b>
Toll-6	GACAGGTCTGAACGTCTCC AG	TCCGAGGCGTCAACAGGA ATCGACC	<b>Galbraith et al. 2015</b>
Dicer-Like	TCTCCACTAAGTGCTGCA CAA	CCAACAGGAGCTGGAAA AAC	<b>Galbraith et al. 2015</b>
Argonaute-2	TTGCGGTGAACTTTGTTG TT	TCAACAGCAGCAATCGG ATA	<b>Galbraith et al. 2015</b>
Apidaecin	TTTCACGTGCTTCATATTC TTCA	TAGTCGCGGTATTTGGGA AT	<b>Evans et al. 2006</b>
Hymenoptae n	GCGTCTCCTGTCATTCCA TT	CTCTTCTGTGCCGTTGCAT A	<b>Evans et.al 2006</b>
hopscotch (hop)	AACCTCCAAATCGCTCTG TG	TTGTGCTCCTGAAAATGCT G	<b>Chen et al.2014</b>

Supplementary Table S2: List of virus-specific primers used.

Target	Reverse Primer sequence	Forward Primer sequence	References
DWV- TYPE A	CTCATTAACTGTGTCGTT GAT	TACTAGTGCTGGTTTTCC TTT	<b>Kevill et al., 2017</b>
DWV- TYPE B	CTCATTAACTGAGTTGTT GTC	TACTAGTGCTGGTTTTCC TTT	<b>Kevill et al., 2017</b>
DWV- TYPE C	ATAAGTTGCGTGGTTGAC	TACTAGTGCTGGTTTTCC TTT	<b>Kevill et al., 2017</b>
IAPV	CTGAATAATACTGTGCGT ATC	CCATGCCTGGCGATTAC	<b>De Miranda et al., 2010</b>
ABVP	GCTCCTATTGCTCGGTTTT TCGGT	TTATGTGTCCAGAGACT GTATCCA	<b>Chen et al., 2006</b>
BQCV	GCAACAAGAAGAAACGT AAACCAC	TGGTCAGCTCCCACTAC CTTAAAC	<b>Chen et al., 2006</b>
CBPV	ACTACTAGAAACTCGTCG CTTCG	CGCAAGTACGCCTTGAT AAAGAAC	<b>Blanchard et al., 2007</b>
KBV	TGTGGGTTGGCTATGAGT CA	GATGAACGTCGACCTAT TGA	<b>Stoltz et al., 1995</b>
SBV	ACACTGCGCGTCTAACAT TCC	AACGTCCACTACACCGA AATGTC	<b>Blanchard et al., 2014</b>