

Table S3. Primer pairs used for conventional RT-PCR or Quantitative Real-Time RT-PCR analyses.

Target	Forward and reverse primer sequences (5'-3') ^a	Expected product size (bp)
Conventional RT-PCR		
ABPV, AF150629	(F) TTATGTGTCCAGAGACTGTATCCA (R) GCTCCTATTGCTCGGTTTTTCGGT	900
BQCV, NC003784	(F) TGGTCAGCTCCCCTACTTAAAC (R) GCAACAAGAAGAAACGTAAACCAC	700
CBPV, NC010711	(F) AGTTGTCATGGTTAACAGGATACGAG (R) TCTAATCTTAGCACGAAAGCCGAG	455
DWV, NC004830	(F) ATCAGCGCTTAGTGGAGGAA (R) TCGACAATTTTCGGACATCA	702
IAPV, NC009025	(F) GCGGAGAATATAAGGCTCAG (R) TTGCAAGATAAGAAAGGGGG	586
KBV, NC004807	(F) GATGAACGTCGACCTATTGA (R) TGTGGGTTGGCTATGAGTCA	415
SBV, NC002066	(F) GCTGAGGTAGGATCTTTCGCT (R) TCATCATCTTCACCATCCGA	824
<i>Nosema apis</i> , U97150	(F) CCATTGCCGGATAAGAGAGT (R) CCACCAAAAACCTCCCAAGAG	269
<i>Nosema ceranae</i> , DQ486027	(F) CGGATAAAAGAGTCCGTTACC (R) TGAGCAGGGTTCTAGGGAT	250
Quantitative Real-time RT-PCR		
DWV	(F) GCGCTTAGTGGAGGAAATGAA (R) GCACCTACGCGATGTAAATCTG	69
dorsal-1A Toll/TLR	(F) TCGGATGGTGCTACGAGCGA (R) AGCATGCTTCTCAGCTTCTGCCT	153
cSP33 ser proteases	(F) CGTCGGTGGTAAAGCGGCGA (R) AACGGCGACCAACGTTGCCA	175
SPH51 ser proteases	(F) TGGCAATTGTCTTTGCGGGCG (R) TACTTCCGCCGCCGTTACGC	196
Eater like EGE Family	(F) GGCGAGTGCACCGGCTTGAA (R) GCGCCATCGCGTCATAGCCA	169
NimC2Phagocytosis	(F) GCGTGGAGGACGGGAAACCG (R) ACATCGATGGCAGAGCGGCG	185
PGRP-S2	(F) GGCCACACACCAAATGCAGCAG (R) CGAGGACCAGTGTGGCCATGT	177

^a F, forward - R, reverse