

Primers 5'→ 3'	Product size (bp)	Annealing T°	Application
DWV-F (5- GGATGTTATCTCCTGCGTGGAA -3) * DWV-R (5-CCTCATTAACGTGTGTCGTTGATAATTG -3) *	69	60	PCR/qPCR
Actβ -F (5- ATGCCAACACTGTCCTTCTGG -3) ** Actβ -R (5- GACCCACCAATCCATACGGA -3) **	152	60	PCR/qPCR
DWV-A-F (5- GCGTGTTGCAACTCGCTTC-3)*** DWV-A-R (5-TGCCTGCACCGGATTCGATAAT-3)***	211	58	PCR
DWV-B-F (5-GCAAGTTGGAGATAATTGTA-3)**** DWV-B-R ( 5-CGATACTTACATTCTTCAAGAT-3)****	116	58	PCR
IAPV-F (5-CGAACTTGGTGAAG-3)***** IAPV-R (5-GCATCAGTCGTCTTCCAGG-3)*****	110	58	Multiplex PCR
SBV-F (5-CGTAATTGCGGAGTGGAAAGATT-3)***** SBV-R (5-AGATTCCTTCGAGGGTACCTCATC-3)*****	342	58	Multiplex PCR
AIV-F (5-GGTGCCCTATTTAGGGTGAGGA-3)***** ABPV-R (5-ACTACAGAAGGCAATGTCCAAGA-3)*****	460	58	Multiplex PCR
BQCV-F (5-CTTTATCGAGGAGGAGTTGAGT-3)***** BQCV-R (5-GCAATAGATAAAGTGAGCCCTCC-3)*****	536	58	Multiplex PCR
AIV-F (5-GGTGCCCTATTTAGGGTGAGGA-3)***** KBV-R (5-TGCACGGGAAGTATAAATAATTCT-3)*****	641	58	Multiplex PCR
CBPV-F (5-AACCTGCCTCAACACAGGCAAC-3)***** CBPV-R (5-ACATCTCTTCTTCGGTGTGAGCC-3)*****	774	58	Multiplex PCR

Oligonucleotids used for amplification of viruses and Act β in this study. Sequences, products size, annealing temperature and applications are indicated.

F:Forward; R: Reverse; DWV:Deformed Wing Virus; Actβ:Actin β; DWV-A:Deformed Wing Virus-A variant; DWV-B:Deformed Wing Virus-B variant; IAPV:Israeli Acute Paralysis Virus; SBV:Sacbrood Virus; AIV:Apis Iridescent Virus; ABPV:Acute Bee Paralysis Virus; BQCV:Black Queen Cell Virus; KBV: Kashmir Bee Virus; CBPV:Chronic Bee Paralysis Virus

\*70,\*71,\*\*64,\*\*\*65,\*\*\*\*72,\*\*\*\*\*73,\*\*\*\*\*74