

Primers used in this study for plant species identification and virus diagnosis

Primer	Sequence (5' → 3')	Target	T_a (°C)
rbcLa-F ¹	ATGTCACCACAAACAGAGACTAAAGC	Chloroplast	56
rbcLa-R ¹	GTAAAA TCA AGT CCA CCR CG	Chloroplast	56
CRA/F ^{2a}	TGTTGACAGGTGTTTGTGTTTGC	Rep	60
CRA/R ^{2a}	ATCACGAATTAGATCATGGCCC	MP	60
DNA-A1/F ^{2a}	ACGCCATTCTGTGCCTGAGGA	TrAP/REn	60
DNA-A1/R ^{2a}	GGACGGCGACACAACCAGCT	Rep/AC4	60
DNA-A2/F ^{2a}	ACTCATCGTGTTCGGGAAGAGGT	CP	60
DNA-A2/R ^{2a}	CAAGTGAGACGCAGAGGTCCCA	Rep/TrAP	60
DNA-A3/F ^{2a}	TCCTGACTCGGTGCATGGGT	MP	60
DNA-A3/R ^{2a}	ACCTGTCCAAAATCTTGTGGGC	CP	60
DNA-A4/F ^{2a}	ATAGCACCGTCGGCAGAACC	Rep	60
DNA-A4/R ^{2a}	AGTTGCCCTCCGTTCCACCG	CR	60
CRB/F ^{2a}	CCTTCCATTGCTGTTGTTTGCT	CR/MP	60
CRB/R ^{2a}	TGGCCCAATAAAAACAAGCCCA	CR	60
DNA-B1/F ^{2a}	CTGACTGGGCCTGGGATGCG	MP	60
DNA-B1/R ^{2a}	ACTAACACACGATGCGGCTCCT	MP	60
DNA-B2/F ^{2a}	CTTGTGCTGCTTCCTCTTGGCT	MP	60
DNA-B2/R ^{2a}	GTTGCCCTCCGTTCCACCGA	CR	60
DNA-B3/F ^{2a}	ATGCTCGGCGATCTATAGAGGA	NSP	60
DNA-B3/R ^{2a}	TCAACAGCACTCGACCCAGGC	MP	60
DNA-B4/F ^{2a}	TTGGCTCTCAGGTGTCCACGT	CR	60
DNA-B4/R ^{2a}	ACGACCTCCATTACCTTCAACA	NSP	60

¹Barcode primers used for amplification of rubisco gene for plant species identification.

²Overlapping primers used for generating PCR products for Sanger sequencing to validate NGS data.

^aPrimers designed for the current study.