

Table S1. List of primers, their target region and product size.

Target	Primer Name	Primer sequence	Product size (bp)
CP	ApMV	F5'CTCAAGCGAACCCGAATAAGGGTAAGAA-3' R3'TCGTCGATAAGTAGAACATTTCGTCGGTATTGTC-5'	550
Rep-gene	ASGV	F 5'CATATGTTCACTGAGGCAAAAGCTG-3' R 3'GGATCCAGAAAACCCATCAAAGACTT5'	230
CP	ASPV	F5'ATGTCTGGAACCTCATGCTGCAA-3' R 3'TTGGGATCAACTTTACTAAAAGCATAA-5'	370
CP	ApNMV	F 5' CTTGCGTGCAATCGATATGG-3' R 3'TCATCTCAACCTAGACATCC-5'	670
Full genome	AHVd	F 5'CCTTCCTGATGAGTCCGTTCCA-3' R3'CTAATAGCCTCCGACCGTCAT-5'	440
RNA 2	ApNMV	F 5' ACCGAGTTTATGTTTACCA-3' R 3'CCAAAGGGATTGCCCCGTA-5'	700

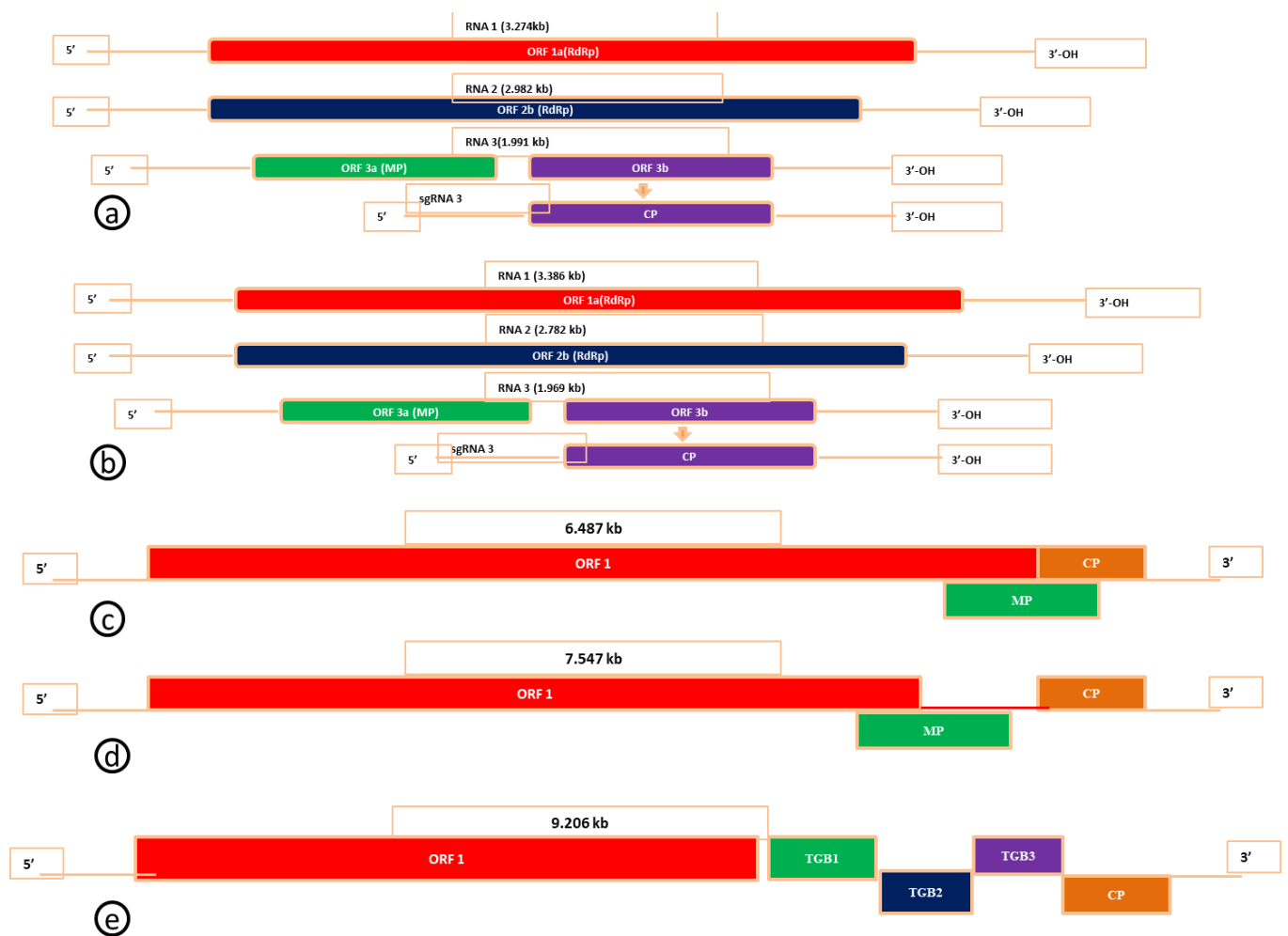


Figure S1. Open Reading frames identified using NCBI ORF finder in genomes of viruses (a-ApMV, b-ApNMV, c-ASPV, d-ASGV, e-AHVd) detected using RNA-Seq.

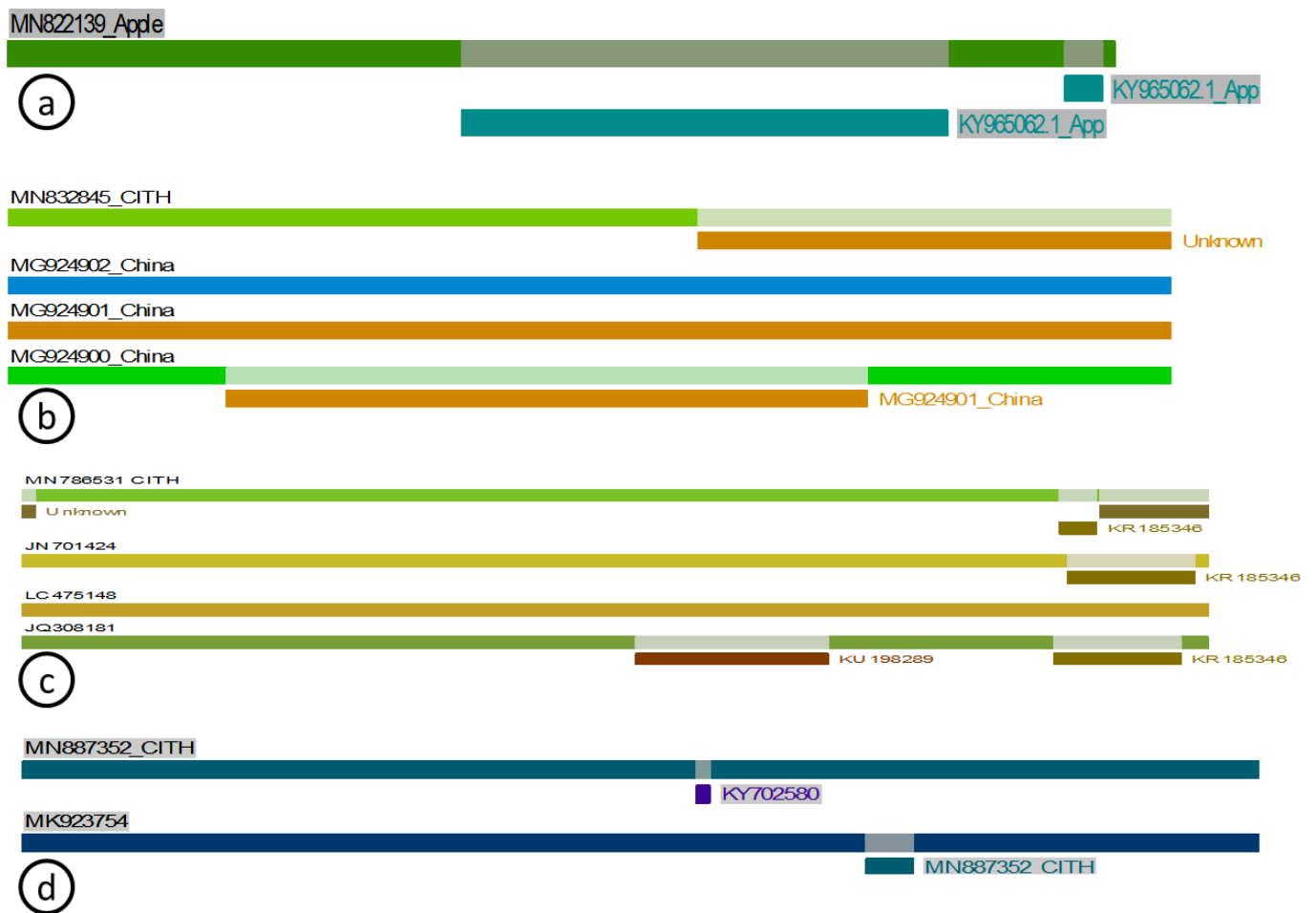


Figure S2. Recombination events in reconstructed viral genomes using RDP4 program. The positions of identified recombination events in our isolates are indicated in a different color in the genome, **a**- ApMV, **b**-ApNMV, **c**-ASPV, **d**-ASGV.