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**Table S1.** List of assay hosts for host infection studies

S.No.	Host	Scientific name	Family	Variety (WVC accession number)
1.	Tomato	<i>Solanum lycopersicum</i>	<i>Solanaceae</i>	ANT22
2.	Pepper	<i>Capsicum annuum</i>	<i>Solanaceae</i>	VC27a
3.	Pepper	<i>Capsicum chinense</i>	<i>Solanaceae</i>	AVPP1932
4.	Pepper	<i>Capsicum frutescense</i>	<i>Solanaceae</i>	VI040881
5.	Cucumber	<i>Cucumis sativus L</i>	<i>Cucurbitaceae</i>	C459
6.	Luffa	<i>Luffa aegyptiaca</i>	<i>Cucurbitaceae</i>	Not specified
7.	Bitter gourd	<i>Momordica charantia L</i>	<i>Cucurbitaceae</i>	AVBG1331
8.	Okra	<i>Abelmoschus esculentus</i>	<i>Malvaceae</i>	NZ05360 (others)
9.	Cowpea	<i>Vigna unguiculata</i>	<i>Leguminaceae</i>	V-68
10.	Green gram	<i>Vigna radiata</i>	<i>Leguminaceae</i>	KPS 2
11.	Black gram	<i>Vigna mungo</i>	<i>Leguminaceae</i>	V30274
12.	Tobacco	<i>Nicotiana rustica</i>	<i>Solanaceae</i>	N-40
13.	Tobacco	<i>N. tabacum</i> var. white burley	<i>Solanaceae</i>	N-69
14.	Tobacco	<i>N. tabacum</i> var. Xanthi	<i>Solanaceae</i>	N-71
15.	Quinoa	<i>Chenopodium quinoa</i>	<i>Chenopodiaceae</i>	Not specified
16.	Lambs quarters	<i>C. album</i>	<i>Chenopodiaceae</i>	Not specified
17.	Devil's trumpet	<i>Datura metel</i>	<i>Solanaceae</i>	D-6

**Table S2.** Details of primers used for viral complete genome sequencing in the study

Primer name	Sequence (5'–3')	Annealing Temp (°C)		Amplicon size (~1500 bp)	Orientation
		Tom1	EP1		
pPVMV-1	AAA AAT TAA ACA TAT CAT ACA AAC AAA TAC GAA AGC ARA C	58 °C	58 °C	1500 bp	+ (Forward)
nPVMV-1494	CCT TTG ATC AGT GTT TCA TTC ACT GCT AG				- (Reverse)
pPVMV-1405	CTT TAA ACA ATT TTA ATC CAA ATA GAG ARG C	62 °C	52 °C	1500 bp	+ (Forward)
nPVMV-2933	CTC TCC ATT GCG CAT CCA AAT CGT CCC TG				- (Reverse)
pPVMV-2850	GAT GCT GAC AGT GAY GCA ACG TTR G	58 °C	58 °C	1500 bp	+ (Forward)
nPVMV-4362	CAT CAG CAT TTG ATC CTG TTC CTT GTG C				- (Reverse)
pPVMV-4273	CAC CAC CGG GGA GAG AAA CTG AAT TC	52 °C	62 °C	1500 bp	+ (Forward)

nPVMV-5802	GAC AAC TCT CCC AAG CYT TGC ATC TCG				– (Reverse)
pPVMV-5689	GGA TGC TAT ATC AGT TYG TYA TGG ATT CA	54 °C	57 °C	1500 bp	+ (Forward)
nPVMV-7139	GGA ACA ATG GGC ACT GTC CTT TC				– (Reverse)
pPVMV-7041	CAG GAG CAA GGA GAA GAR AAA TGG	58 °C	52 °C	1500 bp	+ (Forward)
nPVMV-8607	GCA TCG ACA GTC TCR CCR GC				– (Reverse)
pPVMV-8457	GGA AAA GCT CCA TAC ATA TCA GAA G	52 °C	54 °C	1500 bp	+ (Forward)
nPVMV-9775	AGC GCC AAT TAT GAA ACC GCT				– (Reverse)