

**Table 3.** Summary of novel gammacytorhabdoviruses identified from plant RNA-seq data available on NCBI.

Plant host	Taxa/ family	Virus name/ Abbreviation	Bioproject ID/ Data citation	Length (nt)	Accession number	Protein ID	Length (aa)	Highest scoring virus- protein/ <i>E</i> -value/query coverage%/identity% (Blast P)
Teide marguerite ( <i>Argyranthemum tenerifae</i> )	Dicot/ <i>Asteraceae</i>	Argyranthemum gammacytorhabdovirus 1/ ArgGCRV1	PRJNA491458/ [92]	10801	BK064345	N P P3 M L	450 297 231 176 2068	GymDenV1-N/1e-98/94/41.31 no hits TrAV1-P3/7e-28/96/29.91 GymDenV1-M/1e-24/88/33.97 GymDenV1-L/0.0/99/55.15
carrot ( <i>Daucus carota</i> )	Dicot/ <i>Apiaceae</i>	Daucus gammacytorhabdovirus 1/ DauGCRV1	PRJNA745346/ Chakrabarti, S., CSIR-IICB, unpublished	11730	BK064346	N P P3 M L	459 328 230 201 2069	TrAV1-N/2e-133/95/47.42 TrAV1-P/2e-36/99/30.65 TrAV1-P3/4e-52/95/39.73 GymDenV1-M/2e-23/91/33.33 TrAV1-L/0.0/99/64.34
celery ( <i>Apium graveolens</i> )	Dicot/ <i>Apiaceae</i>	Apium gammacytorhabdovirus1/ ApiGCRV1	PRJNA543957/ [97]	12008	BK064347	N P P3 M L	455 325 233 197 2069	TrAV1-N/4e-173/94/57.83 TrAV1-P/2e-81/87/47.44 TrAV1-P3/4e-81/94/53.95 TrAV1-M/4e-61/94/51.87 TrAV1-L/0.0/100/72.5
Chinese goldthread ( <i>Coptis chinensis</i> )	Dicot/ <i>Ranunculaceae</i>	Coptis gammacytorhabdovirus 1/ CopGCRV1	PRJNA361017/ [98]	11214	BK064348	N P P3 M L	437 286 227 187 2069	GynDenV1-N/5e-118/99/42.6 TrAV1-P/2e-30/97/28.52 TrAV1-P3/1e-47/93/35.81 GymDenV1-M/2e-40/93/41.95 TrAV1-L/0.0/99/61.74
Bigseed alfalfa dodder ( <i>Cuscuta indecora</i> )	Dicot/ <i>Convolvulaceae</i>	Cuscuta gammacytorhabdovirus 1/ CusGCRV1	PRJNA543296/ [99]	10772	BK064349	N P P3 M L	429 301 220 196 2054	TrAV1-N/7e-108/96/43.68 GymDenV1-P/3e-21/92/29.87 TrAV1-P3/3e-16/97/25.23 GymDenV1-M/6e-13/80/32.1 GymDenV1-L/0.0/99/50.17
Nevada dodder ( <i>Cuscuta nevadensis</i> )	Dicot/ <i>Convolvulaceae</i>	Cuscuta gammacytorhabdovirus 2/ CusGCRV2	PRJNA561399/ Frangione, E., Canada, unpublished	10700	BK064350	N P P3 M L	429 302 220 188 2054	TrAV1-N/1e-106/96/42.49 GymDenV1-P/9e-20/83/27.97 TrAV1-P3/2e-17/95/27.78 GymDenV1-M/6e-17/85/34.15 GymDenV1-L/0.0/99/50.85

Slipper orchid ( <i>Cypripedium flavum</i> )	Monocot/ <i>Orchidaceae</i>	Cypripedium gammacytorhabdovirus 1/ CypGCRV1	PRJNA479379/ [73]	10872	BK064351	N P P3 M L	437 283 228 213 2069	GymDenV1-N/2e-117/96/45.5 GymDenV1-P/2e-46/96/35.1 TrAV1-P3/4e-36/94/34.86 GymDenV1-M/4e-38/83/37.64 GymDenV1-L/0.0/99/60.34
Violet helleborine ( <i>Epipactis purpurata</i> )	Monocot/ <i>Orchidaceae</i>	Epipactis gammacytorhabdovirus 1/ EpiGCRV1	PRJNA450088/ [100]	11001	BK064352	N P P3 L	452 300 225 2064	GymDenV1-N/2e-102/86/42.36 GymDenV1-P/4e-21/93/26.51 TrAV1-P3/2e-26/64/34.72 GymDenV1-L/0.0/99/57.83
Common ash ( <i>Fraxinus excelsior</i> )	Dicot/ <i>Oleaceae</i>	Fraxinus gammacytorhabdovirus 1/ FraGCRV1	PRJEB4958/ [101]	11521	BK064353	N P P3 M P5 L	443 284 224 184 65 2068	TrAV1-1e-96/94/41.96 GymDenV1-P/1e-26/94/28.81 TrAV1-P3/7e-29/97/29.41 GymDenV1-M/2e-30/85/38.22 no hits GymDenV1-L0.0/99/55.78
Ash dieback ( <i>Hymenoscyphus fraxineus</i> )	-	Fraxinus gammacytorhabdovirus 2/ FraGCRV2	PRJEB7998/ [102]	11737	BK064354	N P P3 M P5 L	439 285 224 187 55 2068	GymDenV1-2e-101/89/40.61 GymDenV1-P/8e-39/94/30.51 TrAV1-P3/6e-33/96/34.84 GymDenV1-M/7e-31/86/36.65 no hits GymDenV1-L0.0/99/56
Dwarf heliosperma ( <i>Heliosperma pusillum</i> )	Dicot/ <i>Caryophyllaceae</i>	Heliosperma gammacytorhabdovirus 1/ HelGCRV1	PRJNA760819/ [103]	11579	BK064355	N P P3 M L	436 308 221 206 2063	GymDenV1-N/3e-102/90/41.65 GymDenV1-P/2e-30/84/31.9 TrAV1-P3/1e-27/95/31.63 GymDenV1-M/5e-29/83/35.67 GymDenV1-L/0.0/99/58.31
Kenaf ( <i>Hibiscus cannabinus</i> )	Dicot/ <i>Malvaceae</i>	Hibiscus gammacytorhabdovirus 1/ HibGCRV1	PRJNA602109/ [104]	11079	BK064356	N P P3 M L	458 391 221 194 2063	GymDenV1-N/3e-77/88/35.39 GymDenV1-P/6e-08/62/25.99 TrAV1-P3/2e-16/78/26.92 GymDenV1-M/9e-12/79/26.45 TrAV1-L/0.0/99/53.86
Golden ageratum ( <i>Lonas annua</i> )	Dicot/ <i>Asteraceae</i>	Lonas gammacytorhabdovirus 1/ LonGCRV1	PRJNA371565/ [105]	11920	BK064357	N P P3 M L	450 297 231 176 2068	GymDenV1-N/5e-106/88/44.75 GymDenV1-P/1e-20/94/26.56 TrAV1-P3/3e-24/95/27.6 GymDenV1-M/5e-24/88/30.77 GymDenV1-L/0.0/99/55.40

Mantano river lupine ( <i>Lupinus mantaroensis</i> )	Dicot/ <i>Fabaceae</i>	Lupinus gammacytorhabdovirus 1/ LupGCRV1	PRJNA318864/ [106]	11196	BK064358	N P P3 M L	430 314 221 189 2057	TrAV1-N/8e-105/98/40.95 GymDenV1-P/9e-20/85/25.91 TrAV1-P3/1e-16/76/30.41 GymDenV1-M/1e-08/84/27.16 TrAV1-L/0.0/99/51.47
Stinkhorn clubhead ( <i>Rhopalocnemis phalloides</i> )	Dicot/ <i>Balanophoraceae</i>	Rhopalocnemis gammacytorhabdovirus 1/ RhoGCRV1	PRJNA737177/ [107]	11024	BK064359	N P P3 L	469 305 231 2071	GymDenV1-N/6e-110/86/43.06 GymDenV1-P/1e-17/84/26.16 TrAV1-P3/7e-25/92/29.17 GymDenV1-L/0.0/99/55.86
Bladder campion ( <i>Silene vulgaris</i> )	Dicot/ <i>Caryophyllaceae</i>	Silene gammacytorhabdovirus 1/ SilGCRV1	PRJNA104951/ [108]	11500	BK064360	N P P3 M L	435 311 221 209 2066	GymDenV1-N/6e-107/89/43.83 GymDenV1-P/3e-35/88/29.14 TrAV1-P3/9e-33/97/31.96 GymDenV1-M/5e-31/80/36.09 GymDenV1-L/0.0/99/58.04

\* Acronyms of best hits are listed in Supp. Table S1.