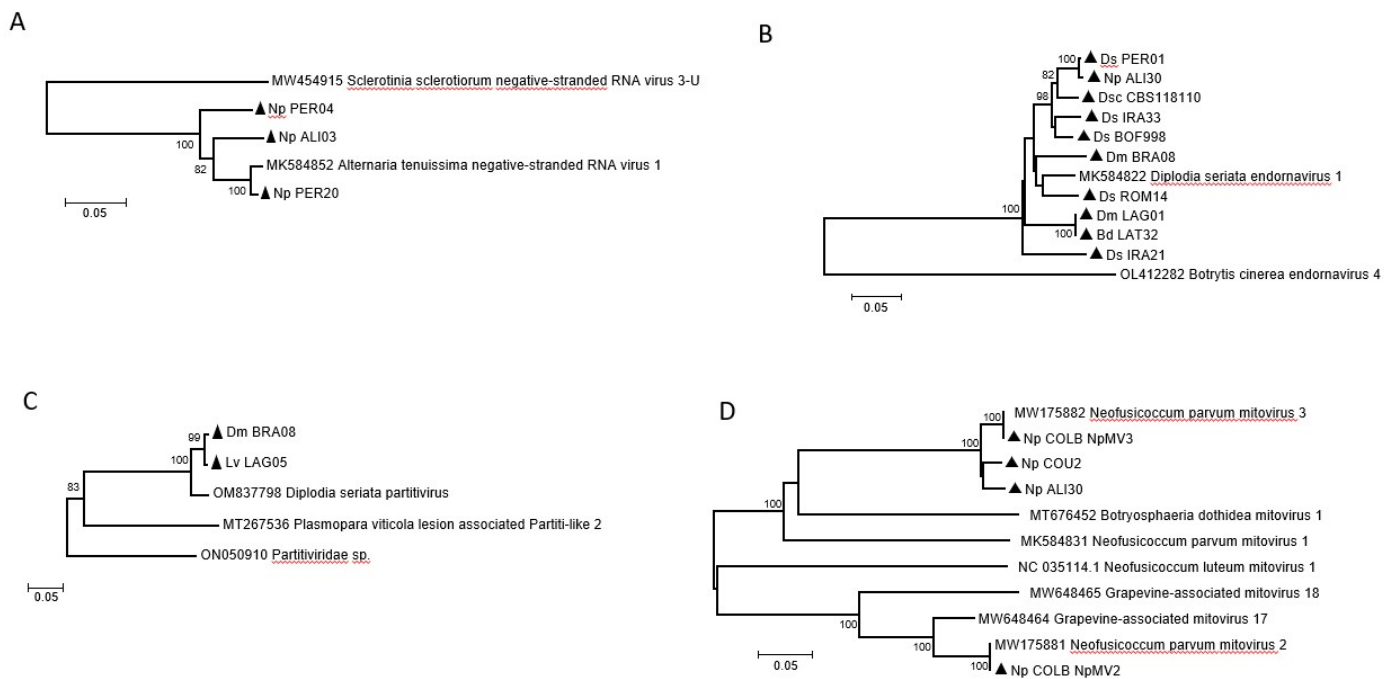
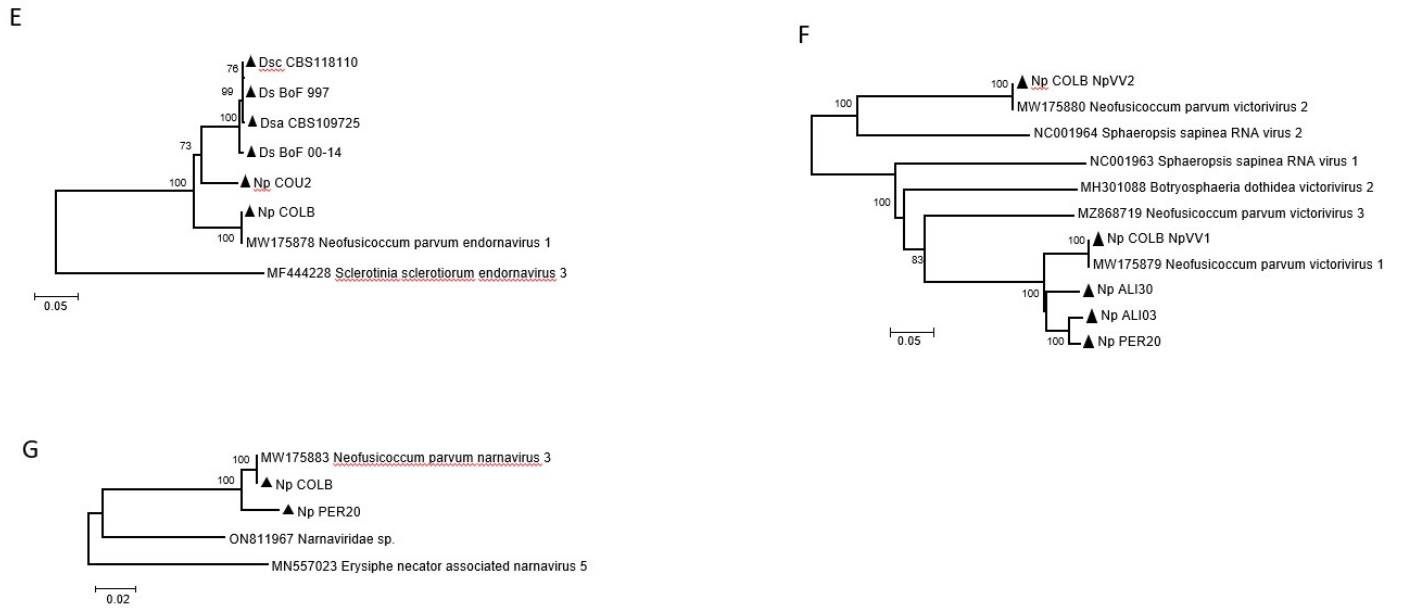


**Figure S1.** Neighbor-joining tree reconstructed using the alignment of ORF1-deduced protein sequences from Fusagraviridae members.





**Figure S2.** Neighbor-joining phylogenetic trees reconstructed using the nucleotide sequences of the PCR products generated for the detection of mycoviruses.

**Table S1.** Summary of the viruses and primers included in the present study.

Virus name	Viral family (type)	Primer	Sequence 5'-3'	Target	At	Accession number	References
Diplodia mutila fusagravirus 1 (DmFV1)	<i>Fusagraviridae</i> (dsRNA)	Fusa-F2	GCTACCCGCCGTCTGGCTATG	DmFV1 ORF1	58°C	ON236578 ON236579	This study
		Fusa-R2	CAGAGCGCGGAGCCGGTTCTG				
		ARB45-Div-5Race1	CGATAGCGACTTACCACCCGGAC-GACC	DmFV1 5'Race	68°C		
		ARB45-Div-5Race2	ACCTCGCTAACGGCGAGGGAT-TCTTCCG	DmFV1 5'Race	68°C		
		ARB45-Div-LD	CGACCTTCCCCCGTGGCGGCGGA	DmFV1 3'Race	68°C		
Diplodia seriata mycobunyavirus 1 (DsBMV1)	<i>Bunyavirales</i> (-ssRNA)	DsBMV1-F1	GAACATGAGAGATTAACAAGATG	DsBMV1 RdRp	57°C	ON236586	This study
		DsBMV1-R1	TCGTTCTTGTTCTGAATTCAG				
Diplodia seriata narnavirus 1 (DsNV1)	<i>Narnaviridae</i> (+ssRNA)	DsNV1-F1	GATCGGTAGATATGTTGGTATG	DsNV1 RdRp	54°C	ON236587	This study
		DsNV1-R1	GCTCATCATTATTGAACTCCAT				
Diplodia seriata endornavirus 1 (DsEV1)	<i>Betaendornaviridae</i> (+ssRNA)	BE-F1	AAGCGCATGGAAGACATGATG	DsEV1 RdRp	58°C	MK584822 ON236580 ON236581	[44], This study
		DsEV1-R	GACGCGATCTTCACTGAGGGA				
Alternaria tenuissima negative-stranded RNA virus 1 (AtNRsV1)	<i>Mymonaviridae</i> (-ssRNA)	Mono-F1	TCTTGCTGCAATAGCTGAGATG	AtNSRV1 RdRp	58°C	MK584808 ON236577	[44], This study
		Mono R1	AGATTTCGCCTCGGTGAGTACAA				
		PER20-AtNSRV1-5Race3	CAGAAACAGCATCGCGAAC-GACTC	AtNSRV1 5'Race	68°C		
		PER20-AtNSRV1-LD4	CCACCGCGCAAACCAG-CATCTCGAC	AtNSRV1 3'Race	68°C		

Neofusicoccum parvum narnavirus 3 (NpNV3)	<i>Narnaviridae</i> (+ssRNA)	NpNV3-F1	TACTGTTGATGGGCTGGTAATG	NpNV3 RdRp	58°C	MW175883 ON236576	[45], This study
		NpNV3-R1	CCGGTACATACTGATCGGTGT				
		PER20-NpNV3-5Race	TCCCAAGAGAGGAGTTCTTCCCACATT	NpNV3 5'Race	64°C		
		PER20-NpNV3-LD	TCATCCTACACATGTGCCATTTAGTGG	NpNV3 3'Race	62°C		
Neofusicoccum parvum victorivirus 1 (NpVV1)	<i>Totiviridae</i> (dsRNA)	NpVV1-F1	AGCCCTGATCCAGCTGCTCTC	NpVV1 RdRp	58°C	MW175879 ON236575	[45], This study
		NpVV1-R1	GGTCACCATTTCGGTTGTGAG				
Diplodia seriata partitivirus 1 (DsPV1)	<i>Partitiviridae</i> (dsRNA)	Part-F1	TTGCATCAACGCTGTTCAAATG	DsPV1 RdRp	58°C	OM837798 ON236582 ON236583 ON236584 ON236585	[47], This study
		Part-R1	GAGCAGCTGAATCGATAGGG				
		BRA08-Part-Race2	TAATCGCCGTCATAACAACGCCTCGGTAG	DsPV1 5'Race	68°C		
Neofusicoccum parvum victorivirus 2 (NpVV2)	<i>Totiviridae</i> (dsRNA)	NpVV2-F1	CGAGATGGTCTAGTCACCATG	NpVV2 RdRp	58°C	MW175880	[45]
		NpVV2-R1	GCTTCAGTTAAGCGCCATAAG				
Neofusicoccum parvum mitovirus 3 (NpMV3)	<i>Mitoviridae</i> (+ssRNA)	NpMV3-FD	TATTCTTTCACTCCTTGGAGT	NpMV3 RdRp	52°C	MW175882	[45]
		NpMV3-RD	TCACATAATGAGACCATAACT				
Neofusicoccum parvum mitovirus 2 (NpMV2)	<i>Mitoviridae</i> (+ssRNA)	NpMV2-F1	ACCGATCGGTATCTCATCTTCT	NpMV2 RdRp	58°C	MW175881	[45]
		NpMV2-R1	CGGAAGCTACAGGAGACGAGAC				
Neofusicoccum parvum endornavirus 1 (NpEV1)	<i>Alphaendornaviridae</i> (+ssRNA)	NpEV1-F1	GGAACTCATAGTGAACATGATG	NpEV1 RdRp	58°C	MW175878	[45]
		NpEV1-R1	GCCCATGGTTCTGGTTTCTG				
Neofusicoccum parvum chrysovirus 1 (NpCV1)	<i>Chrysoviridae</i> (dsRNA)	NpCV1-F1	GCACGCTGTCGTGCTGCCCATG	NpCV1 RdRp	63°C	MK584816	[44]
		NpCV1-R1	GATCGCGTTACTCTTCGCCAT				
Neofusicoccum parvum mitovirus 1 (NpMV1)	<i>Mitoviridae</i> (+ssRNA)	NpMV1-F1	GGCTGCGAAAGCACCATACAT	NpMV1 RdRp	55°C	MK584831	[44]
		NpMV1-R1	CTGAATCCACCAGTTCGTTAT				
Neofusicoccum parvum narnavirus 1 (NpNV1)	<i>Narnaviridae</i> (+ssRNA)	NpNV1-F1	GCTGCGCTCCAGTATAACATG	NpNV1 RdRp	55°C	MK584833	[44]
		NpNV1-R1	TTGGTCATCATATCTCCCATCAT				

Neofusicoccum parvum narnavirus 2 (NpNV2)	<i>Narnaviridae</i> (+ssRNA)	NpNV2-F1 NpNV2-R1	ATTGATCCATGCTTGCGCATGG GAAAGTAACGAAACCCGATACAT	NpNV2 RdRp	59°C	MK584834	[44]
Neofusicoccum parvum RNA virus 1 (NpVIV1)	Unclassified (+ssRNA)	NpVIV1-F1 NpVIV1-R1	ATGCCTGCTTGGCTTGCCAAG TCCTCGTCACCGAATATCAT	NpVIV1 RdRp	53°C	MK584849	[44]
Neofusicoccum parvum ourmia-like virus 1 (NpOulV1)	<i>Botourmiaviridae</i> (+ssRNA)	NpOulV1-F1 NpOulV1-R1	ACGGGAACGCAACGCAGATG GTACTGCTGTATCGTATCAACCAT	NpOulV1 RdRp	59°C	MK584837	[44]
Neofusicoccum luteum fusarivirus 1 (NIFV1)	<i>Fusariviridae</i> (+ssRNA)	NIFV1-F1 NIFV1-R1	GATTTTGATGAATCCACTAAT CACTAAAGATGTTATTATTCAT	NIFV1 RdRp	50°C	NC_040791	[56]
Neofusicoccum luteum mitovirus 1 (NIMV1)	<i>Mitoviridae</i> (+ssRNA)	CAP037 Mito F1 CAP037 Mito R1	CAAGATCAGTCAAGCCTACC AGAAGGTTATCATGTATAGGC	NIMV1	55°C	NC_035114	[54]

**Table S2.** Percentage of amino acid identities in the proteins encoded by ORF1 and ORF2 of *Diplodia mutila* fusagravirus 1 isolate ARB45 with the corresponding proteins of *Fusagraviridae* members.

<b>Virus</b>	<b>ORF1</b>	<b>ORF2</b>
<i>Diplodia mutila</i> fusagravirus 1 PER20	90.1%	92.1%
<i>Diplodia scrobiculata</i> RNA virus 1	9.9%	69.9%
<i>Streptobotrys caulophylli</i> fusagravirus 1	19.1%	32.4%
<i>Rosellinia necatrix</i> fusagravirus 2	15.7%	31%
<i>Caloscypha fulgens</i> fusagravirus 1	20.3%	30.5%
<i>Fusarium graminearum</i> dsRNA mycovirus 3	19.3%	30.5%
<i>Fusarium poae</i> dsRNA virus 3	21.3%	30.2%
<i>Fusarium poae</i> mycovirus 1	21.2%	30.5%
<i>Sclerotinia sclerotiorum</i> fusagravirus 1	19.7%	29.4%
<i>Rosellinia necatrix</i> fusagravirus 3	18.1%	29%
<i>Rosellinia necatrix</i> mycovirus	20%	28.9%
<i>Rosellinia necatrix</i> fusagravirus 1	17.4%	25.6%