

## Supplemental material

### **A novel partitivirus that confers hypovirulence in plant pathogenic fungi**

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**TABLE S1.** Oligonucleotide primers/adaptor used in this study.

Name	Sequence (5'→3')	Position
To cDNA clone		
RDF1	CCTCAGGCTTTCCTCCGACATCA	2013-2034
RDR1	AGGTCGGGTTTCGTGGTAGTCTG	192-171
RDF2	TCCCCTCCTGCTCATCATTTC	1264-1285
RDR2	CGGGAGCGTAGGCTTGTAATGA	1714-1693
CPR2	GAAGTTGACGGGGATGAAGC	631-612
CPR1	TGGCGACGGAGGAAGACAT	101-83
CPF1:	CTACCATCgAAATgCCCAAT	1536-1555
CPF2:	CCTCgACTTCAAACTCCA	1567-1586
tagged random primers-dN6	CGATCGATCATGATGCAATGCNNNNNN	
Complementary primer for dN6	CGATCGATCATGATGCAATGC	
RACE-OLIGO	GCATTGCATCATGATCGATCGAATTC TTTAGTGAGGGTTAATTGCC-(NH <sub>2</sub> )	
O5RACE-1	GGCAATTAACCCTCACTAAAG	
O5RACE-2	TCACTAAAGAATTCGATCGATC	
O5RACE-3	CGATCGATCATGATGCAATGC	
To detect the virus SsPV1/WF-1		
CP1049F	TCTAAGCCCGAAGGCACCA	1049-1067
CP1348R	GGCAGACGACAAGAGCGAGAA	1348-1327
RAPD1260F	TTCCTCCCCTCCTGCTCAT	1260-1278
RAPD1579R	TCGCCATAACGAAATAGATAAAG	1579-1556
To detect the virus SsHV1/SZ150		
SsHV1F	CCAAAACAACCCTGTCGCC	
SsHV1R	CAACAAACCTGTCAGCACCC	
To detect the virus SsRV1/SZ150		
SsRV1F	GGGTGACGACGGATGGGTA	
SsRV1R	CACAGGCAGCTTCGCTACTCT	
To detect the virus SmRV/SM-1		
SM-1F	AGTTTTTGTCTTCAGGGACGATCTC	
SM-1R	TACCTAAGCCCTACCACTCC	
To detect the expression of actin gene in <i>S. sclerotiorum</i>		
actin-qF2	GAGCTGTTTTCCCTTCCATTGTC	
actin-qR4	GACGACACCGTGCTCGATTGG	

**TABLE S2.** Information of partitiviruses selected for phylogenetic analysis.

Name of Virus selected	Accession no. of RDRP	Accession no. of CP	Acronym
Amasya cherry disease-associated mycovirus	YP_138537.1	YP_138536.1	AcDAV
Atkinsonella hypoxylon partitivirus	NP_604475.1	NP_604476.1	AhPV
Aspergillus ochraceous virus	ABV30675.1	ABV30676.1	AoV
Beet cryptic virus 1	YP_002308574.1	YP_002308575.1	BCV1
Beet cryptic virus 2	ADP24757.1	-	BCV2
Beet cryptic virus 3	AAB27624.1	-	BCV3
Beet cryptic virus 2 RNA1	-	ADP24756.1	BCV2-RNA1
Beet cryptic virus 2 RNA3	-	ADP24758.1	BCV2-RNA3
Botryotinia fuckeliana partitivirus 1	YP_001686789.1	YP_001686790.1	BfPV1
Black raspberry cryptic virus	ABU55400.1	-	BrCV
Carrot cryptic virus	ACL93278.1	ACL93279.1	CCV
Chondrostereum purpureum cryptic virus 1	CAQ53729.1	CAQ53730.1	CpCV1
Ceratocystis polonica partitivirus	YP_001911122.1	YP_001911123.1	CpPV
Cryptosporidium parvum virus 1	AAC47805.1	AAC47806.1	CpV1
Ceratocystis resinifera partitivirus	YP_001936016.1	YP_001936015.1	CrPV
Discula destructiva virus 1	NP_116716.1	NP_116742.1	DdV1
Discula destructiva virus 2	NP_620301.1	NP_620302.1	DdV2
Fragaria chiloensis cryptic virus	YP_001274391.1	-	FcCV
Fragaria chiloensis cryptic virus RNA2	-	YP_001274393.1	FcCV-RNA2
Fragaria chiloensis cryptic virus RNA3	-	YP_001274392.1	FcCV-RNA3
Fusarium poae virus 1	NP_624349.1	NP_624348.2	FpV1
Fusarium solani virus 1	NP_624350.1	NP_624351.1	FsV1
Flammulina velutipes browning virus	BAH56481.1	BAH56482.1	FvBV
Flammulina velutipes isometric virus	BAH08700.1	-	FvIV
Gremmeniella abietina RNA virus MS1	NP_659027.1	NP_659028.1	GarV-MS1
Gremmeniella abietina RNA virus MS2	YP_138540.1	YP_138541.1	GarV-MS2
Heterobasidion annosum P-type partitivirus	AAL79540.1	-	HaPV
Helicobasidium mompa partitivirus V1-1	BAD32677.1	-	HmPV1-1
Helicobasidium mompa partitivirus V1-2	BAD32678.1	-	HmPV1-2
Helicobasidium mompa dsRNA mycovirus	BAC23065.1	-	HmV
Heterobasidion parviporum partitivirus Fr 110B	CBJ23785.1	-	HpPV
Heterobasidion RNA virus 2	ADL66905.1	-	HRV2
Heterobasidion RNA Virus 3	ACO37245.1	-	HRV3
Oyster mushroom isometric virus II	AAP74192.1	-	OmIV-II
Heterobasidion RNA virus 2	-	ADL66906.1	HRV2
Heterobasidion RNA Virus 3	-	ACO37246.1	HRV3

Name of Virus selected	Accession no. of RDRP	Accession no. of CP	Abbreviations
Mulberry cryptic virus 1	-	ACZ54927.1	MCV1
Ophiostoma partitivirus 1	CAJ31886.1	CAJ31887.1	OPV1
Pepper cryptic virus 1	ABC96789.2	-	PCV1
Pittosporum cryptic virus-1	ADE34113.1	-	PCV-1
Primula malacoides virus China/Mar2007	YP_003104768.1	YP_003104769.1	PmV-China
Pyrus pyrifolia cryptic virus	BAA34783.1	-	PpCV
Pinus sylvestris partitivirus NL-2005	AAV51483.1	-	PsPV-NL2005
Penicillium stoloniferum virus F	YP_271922.1	YP_271923.1	PsV-F
Penicillium stoloniferum virus S	YP_052856.2	YP_052857.1	PsV-S
Rose cryptic virus 1	YP_001686786.1	-	RcV1
Rosa multiflora cryptic virus	ABV89762.1	-	RmCV
Rose cryptic virus 1 RNA2	-	YP_001686787.1	RCV1-RNA2
Rose cryptic virus 1 RNA3	-	YP_001686788.1	RCV1-RNA3
Rosa multiflora cryptic virus RNA2	-	ABV89763.1	RmCV-RNA2
Rosa multiflora cryptic virus RNA3	-	ABV89764.1	RmCV-RNA3
Rosellinia necatrix partitivirus 1-W8	YP_392480.1	YP_392481.1	RnPV1-W8
Rosellinia necatrix partitivirus 2	-	BAK53192	RnPV2
Raphanus sativus cryptic virus 1	YP_656506.1	YP_656505.1	RsCV1
Raphanus sativus cryptic virus 2	YP_001686783.1	-	RsCV2
Raphanus sativus cryptic virus 2 RNA2	-	YP_001686784.1	RsCV2-RNA2
Raphanus sativus cryptic virus 2 RNA3	-	YP_001686785.1	RsCV2-RNA3
Raphanus sativus cryptic virus 3	YP_002364401.1	YP_002364402.1	RsCV3
Rhizoctonia solani virus 717	NP_620659.1	NP_620660.1	RsV 717
Radish yellow edge virus	AAU88207.1	-	RyEV
Sclerotinia sclerotiorum partitivirus S	YP_003082248.1	YP_003082249.1	SsPV-S
<b>Sclerotinia sclerotiorum partitivirus 1</b>	<b>JX297511</b>	<b>JX297510</b>	<b>SsPV1</b>
Vicia cryptic virus	YP_272124.1	YP_272125.1	VcV
Vicia faba partitivirus 1	ABJ99996.1	-	VfPV1
White clover cryptic virus 1	YP_086754.1	YP_086755.1	WcCV1