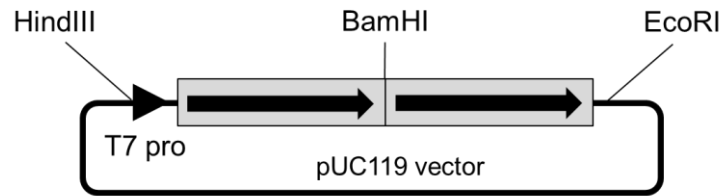


PSTVd-Int 2U cDNA clone



HSVd-citV1(270G) 2U cDNA clone

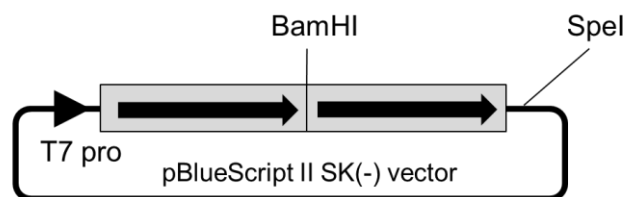


Figure S1. Construction of dimeric cDNA clones of potato spindle tuber viroid (PSTVd) and hop stunt viroid (HSVd). A gray rectangle indicates a unit-length viroid sequence. An arrow indicates the direction of viroid sequence. An arrowhead indicates T7 promoter sequence (T7 pro). EcoRI site in PSTVd clone and SpeI site in HSVd clone were used to linearize plasmids for the run-off transcription.

Table S1. List of primer pairs used in PCR

Primer name	Primer sequence 5'–3'	References
PSTV-7P	GGTTCCTGTGGTTCACACCTG	Hataya, 2009 [34]
PSTV-7M	GAACCAACTGCGGTTCCAAGG	
PSTV-13P	TAATACGACTCACTATAGGGAAACCTGGAGCGAAC	This study PSTVd-Int-G96/G95 TCDVd-Ca-G97/G96
PSTV-13M	atggaattCGGGGATCCCTGAAGCGC EcoRI	
PSTV-22P	TAATACGACTCACTATAGGTGGAAACAACCTGAAGC	This study PSTVd-Int-G265/C264
PSTV-22M	tatcaattGGGTAGTAGCCGAAGCGAC MunI (MfeI)	
PSTV-23P	TAATACGACTCACTATAGGTTCCTGTGGTTCACAC	This study PSTVd-Int-G16/U15
PSTV-23M	tcgtctagACGAGTTTAGTTCCGAGGAACC XbaI	
HSV-8	CGCCTCTCGCTGGATTCTG	This study
HSV-9	GCGGTGCTCTGGAGTAGAG	
HSV-10P	TAATACGACTCACTATAGGGCAACTCTTCTCAGAA	This study HSVd-citV1(270G)- G82/G81
HSV-10M	taagtcgaCGGGGCTCCTTTCTCAGG SalI	
HSV-11P	TAATACGACTCACTATAGATCCTCTCTTGAGCCCC	This study HSVd-citV1(270G)- G284/G283
PHSV268C	GAGGATCCGCGGCAGAGG BamHI	
CSV-1P	CTTAGGACCCCACTCCTGCG	Li et al., 1997 [30]; Nakahara et al., 1999 [33]
CSV-1M	CCGCGATCTCGTCGGACTTC	
CSV-3P	TAATACGACTCACTATAGGGAAACCTGGAGGAAG	This study CSVd-TP2-G93/G92
CSV-3M	atggaattCGGGGATCCCTGAAGGAC EcoRI	
AtropaNad2.1a	GGACTCCTGACGTATACGAAGGATC	Thompson et al., 2003 [35];
AtropaNad2.2b	AGCAATGAGATTCCCCAATATCAT	Hataya, 2009 [34]

T7 promoter sequence is shown in blue letters in a forward primer sequence. Monomeric viroid RNA transcribed from the cDNA clone with T7 RNA polymerase is shown in red letters in "References." Restriction enzyme and its recognition sequence used to linearize a plasmid DNA for run-off transcription is shown in green letters in a reverse primer sequence. Lowercase letters in the reverse primer sequence indicate non-viroid sequence.