Table S1: Oligo nucleotide primers used in the present study

Name	sequence (5'---3')	References
PSTVd-231F	GCCCCCTTTGCGCTGT	[1]
PSTVd-296R	AAGCGGTTCTCGGGAGCTT	
SlEXPA2-F	TTGCACCCGCTTAGGCCTATTAGT	[2]
SlEXPA2-R	ACCCTCAAATCCATAAATGGCCGC	
SlEXPA5-F	GGCAGAATAACGCTTACCTTAACGGC	
SlEXPA5-R	GACCAAGAACTAGGAGCTGCATTG	
SlEXPA9-F	CCCATCACACTGGCAATTTGGTCA	
SlEXPA9-R	TCAGCTCTTCTACATGCACCACCA	
SlEXPA11-F	ATTTATACGTGTGATAGGCAGCGGCG	
SlEXPA11-R	TGTTTCCAGCACCTTCGGACTAGA	
SlEXPA14-F	AGCTGGCATTGTCCCTGTCATCTA	
SlEXPA14-R	TCTCCTGCACCTCCAACGTTTGTT	
SlEXPA18-F	TGGGAAGGGATGAAGCGTAGATGA	
SlEXPA18-R	AGTCCTAATAGAAGCTGCGGGCTA	
tchs2-1152P	CTCATCCAAAGAAGGGCTTAGTACC	This work
tchs2-1255M	CACTATGGAGCACAACAGTCTCAAC	
β-actin F	GAGGACAGGATGCTCCTCAG	[3]
β-actin R	AGACGCCTATGTGGGAGATG	
PSTV-88M	CCCTGAAGCGCTCCTCCGAG	[4]
PSTVd-89P	ATCCCCGGGGAAACCTGGAGCGAAC	

Reference:

1. Adkar-Purushothama, C.R.; Brosseau, C.; Giguère, T.; Sano, T.; Moffett, P.; Perreault, J.-P. Small RNA Derived from the Virulence Modulating Region of the Potato spindle tuber viroid Silences callose synthase Genes of Tomato Plants. *Plant Cell* **2015**, *27*, 2178–2194, doi:10.1105/tpc.15.00523.
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3. Wu, W.; Ding, Y.; Wei, W.; Davis, R.E.; Lee, I.-M.; Hammond, R.W.; Zhao, Y. Salicylic acid-mediated elicitation of tomato defence against infection by potato purple top phytoplasma. *Ann. Appl. Biol.* **2012**, *161*, 36–45, doi:10.1111/j.1744-7348.2012.00550.x.
4. Tsushima, D.; Tsushima, T.; Sano, T. Molecular dissection of a dahlia isolate of potato spindle tuber viroid inciting a mild symptoms in tomato. *Virus Res.* **2016**, *214*, 11–18, doi:10.1016/j.virusres.2015.12.018.

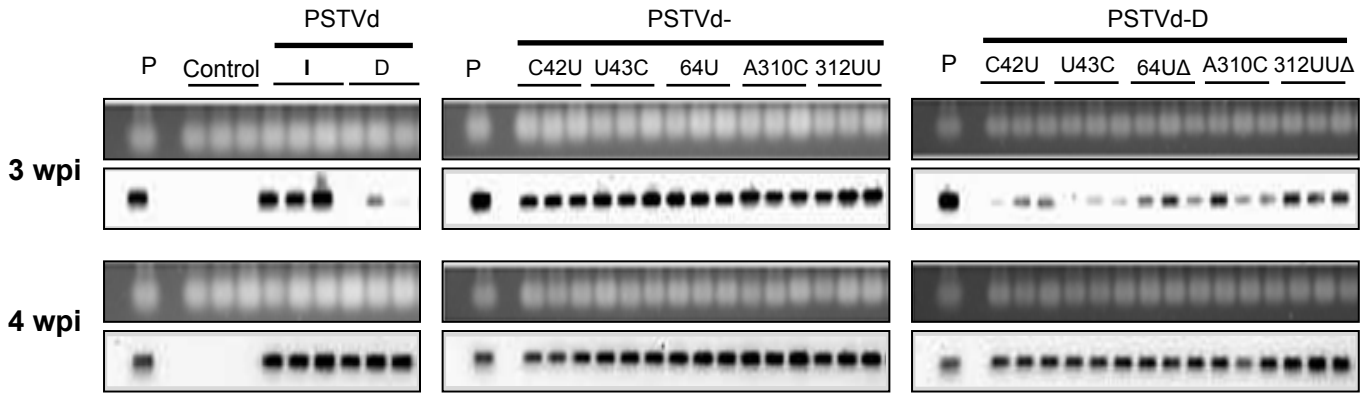

Figure S1: Northern blot hybridization to evaluate the accumulation of native PSTVd mutants.

Total RNA extracted from tomato plants inoculated with native PSTVd mutants were analyzed by Northern blot assay using DIG-labelled PSTVd specific probes at 3-, and 4-wpi. In the figure, P denotes, positive control; control, mock-inoculated plants.

Figure S1 (Kitabayashi et al.,)

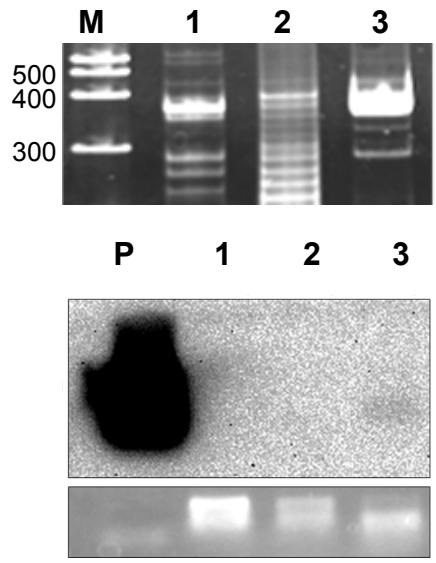

Figure S2: (A) RT-PCR, and (B) Northern blot hybridization analysis for the accumulation of PSTVd-I:C42U/64U in tomato plants.

In the figure, M denotes 100-bp ladder; P indicates positive control.

Figure S2 (Kitabayashi et al.,)

Figure S3: Tomato plants inoculated with PSTVd-I and PSTVd-I:64U exhibited severe vein necrosis on the middle of leaves at 5 wpi.

Figure S3 (Kitabayashi et al.,)

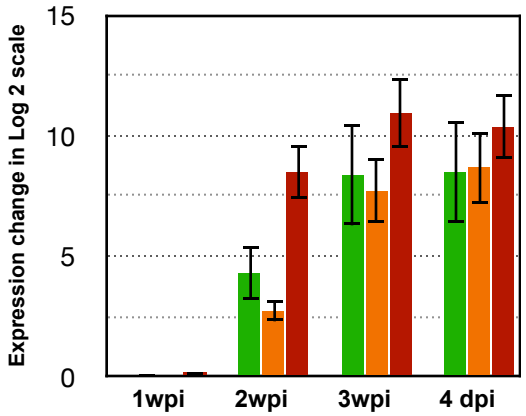

Figure S4: RT-qPCR analysis for the accumulation of PSTVd-D_{wt}, PSTVd-I:C42U, and PSTVd-I_{wt}.

Total RNA extracted from tomato plants inoculated with LMW-RNA of PSTVd-D_{wt}, PSTVd-I_{wt} and PSTVd-I:C42U were assayed by RT-qPCR to analyze the accumulation of viroid RNA. The expression of the viroid RNA is presented in a log2 scale. In the figure, the green bar represents the PSTVd-D_{wt} inoculated plants, while, the orange and the red bars indicate the PSTVd-I:C42U and PSTVd-I_{wt} inoculated plants, respectively. Data represent the mean of three independent experiments, each performed in triplicate. Error bars indicate SD.

Figure S4 (Kitabayashi et al.,)

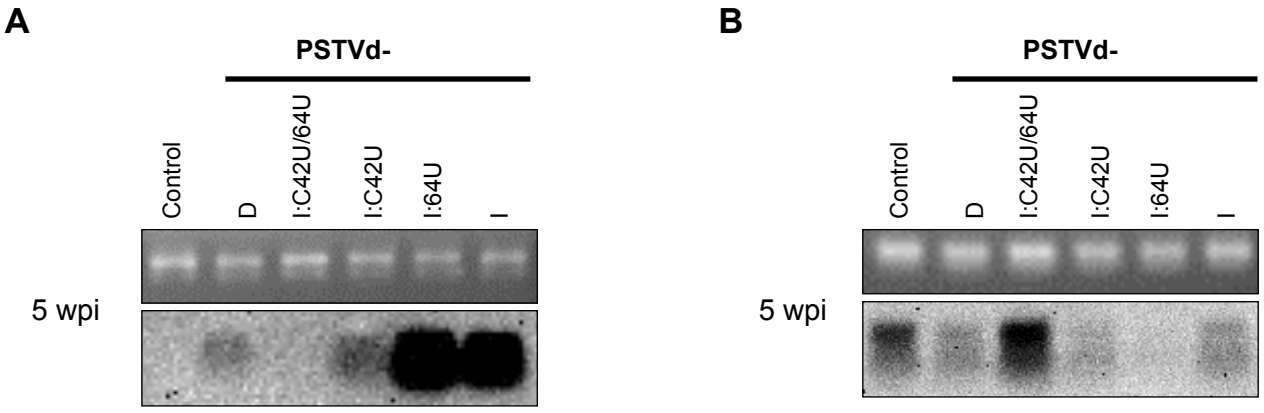

Figure S5: Northern gel blot assay for the accumulation of (A) *slPR1b1*, and (B) *TCHS2* mRNA

Total RNA extracted from tomato plants inoculated with LMW-RNA of PSTVd-D_{wt}, PSTVd-I_{wt}, and mutants of PSTVd-I (PSTVd-I:C42U/64U, PSTVd-I:C42U, and PSTVd-I:64U) at 5-wpi were assayed by Northern gel blot to analyze the expression level of (**A**) *PR1b1* and (B) *TCHS2* mRNAs.

Figure S5 (Kitabayashi et al.,)

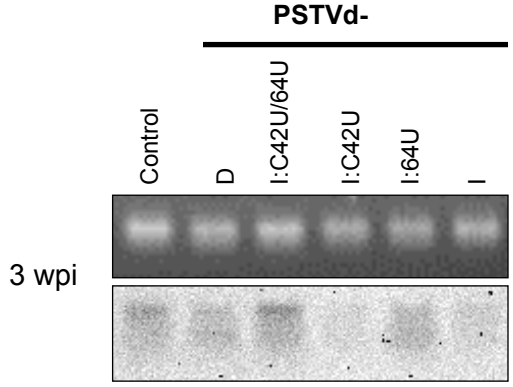

Figure S6: Northern gel blot assay for the accumulation of *EXPA*2 mRNA.

Total RNA extracted from tomato plants inoculated with LMW-RNA of PSTVd-D_{wt}, PSTVd-I_{wt} and mutants of PSTVd-I (PSTVd-I:C42U/64U, PSTVd-I:C42U, and PSTVd-I:64U) at 5-wpi were assayed by Northern gel blot to analyze the expression level of *EXPA2* mRNA.

Figure S6 (Kitabayashi et al.,)