

**Supplementary Table S1.** Primers and TaqMan probe used for BrYV detection in RT-PCR and real-time RT-PCR

Primers	Sequences (5' -3')	Position
<b>BrYV amplification</b>		
BrYV-gap1-F	ACGTGCCAGGAACCAAGAC	354-372
BrYV-gap1-R	CATTTCGGTGTAGACCGAAGAGC	750-772
BrYV-gap2-F	ATCGGGATCCATCCCGCATTG	1910-1930
BrYV-gap2-R	TCCGGATCAGCTCCTCAGGT	2341-2360
BrYV-gap3-F	ATGGTACAATCTCCTTTCACG	4595-4615
BrYV-gap3-R	ATTCTTGTGTCCTCAGAAC	4391-4951
5'RACE	GCGAGCTCCACAAGCGTGTGAGACC	543-567
3'RACE	AGGAGGTTGCTTGTGTCGGCAG	5199-5222
<b>Homologous reorganization</b>		
czBrYV-F	<u>ATTCATTTGGAGAGGACAAAAGAAACCAGGAGGGAATCC</u>	1-24
czBrYV2845-R	<u>CGGATGGGTTTGGGCTAAAAGGGTACCATCGCTCAG</u>	2810-2845
czBrYV2829-F	<u>TAGCCCAAACCCATCCGGGCGTTCAGAAAAGTGGG</u>	2829-2863
czBrYV-R	<u>ACAGGGTATCGGATCCACACCGAAGTGCCGTAGGG</u>	5648-5666
<b>RT-qPCR</b>		
BrYVqp-F	GCCTCCGGTACATTGAGAATGA	4241-4262
BrYVqp-R	CCTTGTTAGGGTCGGTGGT	4402-4420
BrYV4395-F	AGCAAGTACCACCGACCCTA	4395-4414
BrYV4981-R	GAAACATTTCGAGTCCCGGGT	4962-4981
BrYVq pro	HEX-ACATGAACTGGACCAACGTGGACGCCC- BHQ-2	4265-4291
<b>Virus Detection</b>		
BrYV-CP-F	ATGAATACGGTCGTGGGTAG	3472-3491
BrYV-CP-R	CTATTGTTGGATTATGGAATTGGC	4058-4080

Note: The underlined sequences indicate the regions of the recombination sites



**Figure S1:** The photos of BrYV infected strawberry plants.