

Supplementary Table 1. Primer pairs used to amplify the SMV-SX whole genome

Primer name	Primer sequence (5'-3')	Position
SMV5'-GSP	<u>GATTACGCCAAGCTTTTGTCTGAATCCAACGCTCCCTCC</u>	564-589
SMV5'-NGSP	<u>GATTACGCCAAGCTTCTTCTCTTCTTGCTTTCGCCTTGC</u>	468-493
SMV-F1	AGCAAGTCAAATGGCAACA	122-140
SMV-R1	ATCGCTCATCAAACAGTAAACC	921-942
SMV-F2	ATCACAGGAGGCAAAGGA	714-731
SMV-R2	CTCGAAATTCAACGGCAC	1,818-1,835
SMV-F3	GAATCCAAACGGACAAAAG	1,775-1,792
SMV-R3	GGTGAACTAAGCCCATC	2,534-2,551
SMV-F4	GACTTCACAAAGATGGTAAGGGAT	2,142-2,165
SMV-R4	GCACCGATGCTGTCCAAA	2,318-3,135
SMV-F5	ACTGTCCTCAAGCACAC	2,749-2,766
SMV-R5	GCCAACTGCACCTCTAATC	3,872-3,890
SMV-F6	GAAGGTGGACATCCGAGTA	3,357-3,375
SMV-R6	GCAACCCATAAGCAAAGG	4,792-4,809
SMV-F7	ATCCTTGCTTATGGGTTGC	4,790-4,809
SMV-R7	CTGCCTTCTGCTTTCCTT	5,808-5,827
SMV-F8	GCGGTGGTTGGATGTTAT	5,626-5,643
SMV-R8	GTTCTCACGCTTTGGTT	6,562-6,579
SMV-F9	GGGTTGGCTATGGTTCTT	6,358-6,375
SMV-R9	TGGTGCTGCTGTGAATGT	7,548-7,565
SMV-F10	GCAGTGGCTGGAGTGAAA	7,263-7,280
SMV-R10	TGCCCTGTTGGTGTTTT	9,150-9,167
SMV-F11	TAGAGTGGGATAGGAGCAA	8,242-8,260
SMV-R11	TAAAGCGACCCGAAATGA	9,361-9,378
SMV3'-GSP	<u>GATTACGCCAAGCTTAGGAAGGAGACATGGATGCAGGTAAG</u>	8,551-8,576
SMV3'-NGSP	<u>GATTACGCCAAGCTTATGAGCTTGACGATGAGCAGATGGGTG</u>	8,829-8,856

The sequence marked with a horizontal line represents a homologous sequence in the RACE vector.

SMV, soybean mosaic virus; SMV-SX, SMV Shanxi isolate; RACE, rapid amplification of cDNA ends.