

**Supplementary Table S2-List of the specific pairs of primers for selected candidate genes that the corresponding protein directly interacted with the PVX encoded proteins**

Protein Name <sup>a</sup>	Transcription ID <sup>b</sup>	Primer Sequences (5'-3')	Length of PCR	T <sub>m</sub> value (°C) <sup>c</sup>
			Products (bp)	
<i>NbeEF1A</i>	Niben101Scf07423g04011.1	AAAATCCCCTTTGTCCCC	94	56.0
		TTTCGATCATGTTATCACCCCTC		56.8
<i>NbeEF1Bβ-1</i>	Niben101Scf19454g00004.1	CTAGCAAAAGCCCCATCA	90	54.2
		TCCCCAGATACACCACAGAT		54.5
<i>NbeEF1Bβ-2</i>	Niben101Scf00337g03005.1	GTGGCTATACTGAATAACAACAATC	89	55.4
		GCATAACAGATACCCTTGACGA		57.2
<i>NbTIPs</i>	Niben101Scf02016g00005.1	AGGAGGTCCTAAAACTGCTCG	92	58.1
		AAACCCCTGTGACATCCATAA		56.9
<i>NbFD1</i>	Niben101Scf22688g00018.1	AAACGATTAAAACCCCGAACT	88	57.8
		TACGCAACAACCGTGACCT		56.9
<i>NbREM1</i>	Niben101Scf15568g00037.1	GTGACGAGCTGAAGTTGATGTA	94	55.4
		GTTTTGGCTTTTGTAGTGGC		55.3
<i>NbREM2</i>	Niben101Scf08587g00002.1	TCTACCAGCAAGTTGATTCTCC	91	56.4
		TCCATCTCCTCCTTACCGT		56.1
<i>NbREM3</i>	Niben101Scf04804g01002.1	TGCCTCCTCCTGAACAAGTC	86	57.2
		CAGCAGGTTTATCTTCTACGAC		54.1
<i>NbREM4</i>	Niben101Scf02910g01040.1	GCCTTAGTCCCATCTGTCAAC	91	56.2
		TCTCAGTCTCCACTTTCGTAGC		56.5
<i>NbPlastocyanin</i>	Niben101Scf00539g07027.1	CTCTGCTGCTGTTGCTATCC	93	55.9
		CTTTCAAAGAAGCCTTCACC		54.4
<i>NbActin-1</i>	Niben101Scf04140g01010.1	TGAAGATCAAGGTGGTGGC	83	56.0
		TGAAGATCAAGGTGGTGGC		57.8

<i>NbActin-2</i>	Niben101Scf00096g04015.1	AGGCTACTCTTTCACTACCACG CTTCTCCTTCACATCCCTAACA	100	56.0 56.3
<i>NbActin-3</i>	Niben101Scf03410g03002.1	TTGCTATTCAGGCTGTGCTC TCATCAGGCTATCGGTAAGG	98	56.4 55.3
<i>NbPCIP1-1</i>	Niben101Scf03143g06001.1	GTGGCTATGGAAGTGGAATG TCTGGCTGTACTGACTAGGGTG	94	55.2 57.1
<i>NbPCIP1-2</i>	Niben101Scf02720g00003.1	GCCAGTCCACTCACAATCAC CTGCCATAGCCAGCATCAC	98	55.4 57.0
<i>NbPCIP1-3</i>	Niben101Scf01317g02003.1	TGATGATGGGTCGTGGTAG GCTTGAAAAGTTGGTGGAGT	100	53.9 54.3
<i>NbMPB2Cb-1</i>	Niben101Scf00337g03002.1	ATCGTCCCTCTTGTTTCAGTC TTGGTCCCTATGCTTCTTTG	98	53.6 55.4
<i>NbMPB2Cb-2</i>	Niben101Scf01531g03011.1	TCGTCCCTCTTGTTTCAGTCC TTGGTCCCTATGCTTCTTTG	98	57.1 55.4
<i>NbCPIP1</i>	Niben101Scf02043g02002.1	GGGAACTATGAACCTGGAGC CCATCCCTCTTGAAGACAGC	85	56.1 56.9
<i>NbCPIP2</i>	Niben101Scf06958g01003.1	GGTGGAGAATAAACTGTCGTGT TGTAGGCTTGCCAGAGTCAT	96	56.0 55.5
<i>NbCPIP3</i>	Niben101Scf02806g00030.1	GTTCCCATCAAGGCTTAGTTC GTCAACAGTCCTGCCCAAC	94	55.8 55.4
<i>NbCPIP4</i>	Niben101Scf07875g00001.1	CCGTCAAGGCTTAGTTCAGA CATTGCACTTCCACAATCAGTT	89	55.5 57.7

<sup>a</sup> General proteins names

<sup>b</sup> The accession number of *N. benthamiana* transcripts database (<https://solgenomics.net>)

<sup>c</sup> The T<sub>m</sub> value of qRT-PCR used in the study