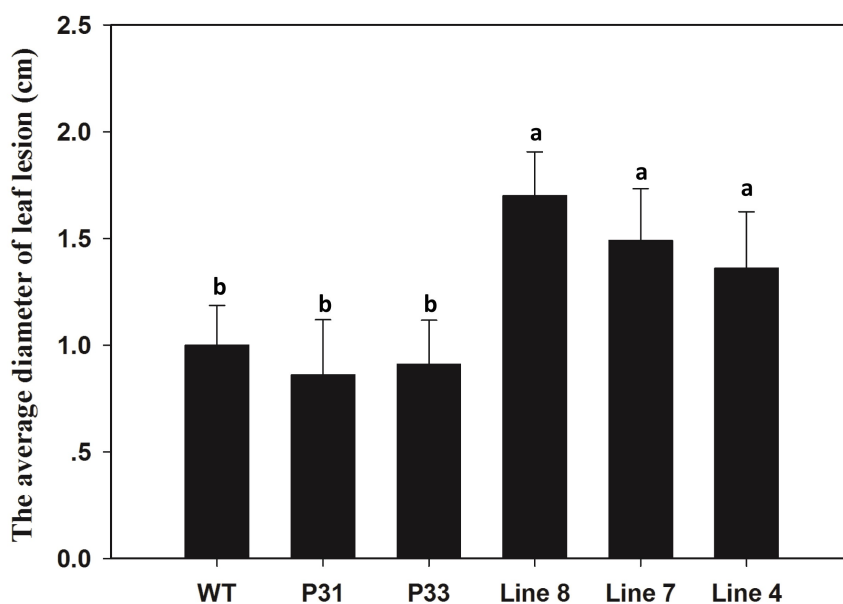
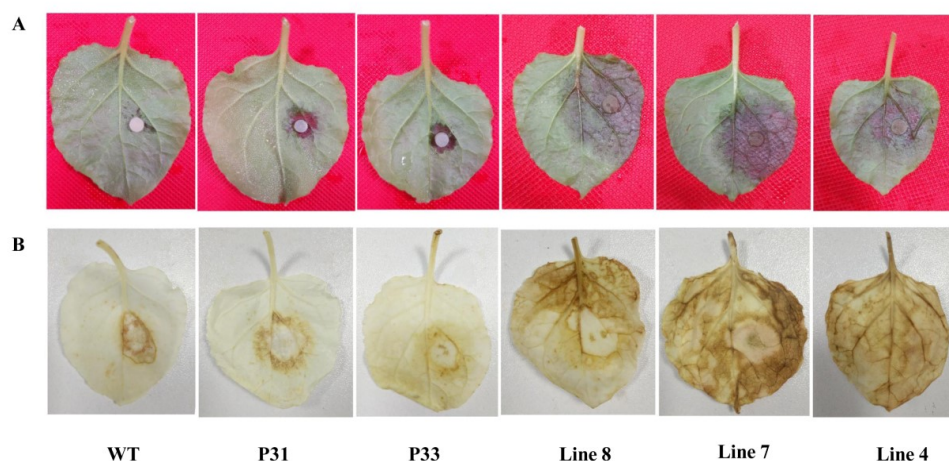


## SUPPLEMENTARY FIGURES AND TABLES

**Supplementary Figure S1.** The average diameter of leaf lesion (cm) of transgenic (line 4, line 7, and line 8), empty vector (P31 and P33), and wild-type (WT) lines after inoculated with *P. capsici* 44 hours. Bars with different lower-case letters indicate significant differences using the least significant difference (LSD) value ( $P \leq 0.05$ ). Mean values and SEs are shown.



**Supplementary Figure S2.** Phenotypes of detached leaves of transgenic (line 4, line 7, and line 8), empty vector (P31 and P33), and wild-type (WT) lines and DAB staining *P. capsici* post-inoculation. (A) Phenotypes of detached leaves of transgenic, empty vector, and wild-type lines after inoculation with *P. capsici*. (B) Phenotypes of the detached leaves stained with DAB after inoculation with *P. capsici*. *N. benthamiana* plants at the age of 65 days were used for this experiment. The diameter of the plug of *P. capsici* used in this experiment is 0.4 cm.



**Supplementary Table S1.** The detail data of disease index percent of transgenic (line 4, line 7, and line 8), empty vector (P31 and P33), and wild-type (WT) lines after inoculated with *P. capsici*.

	Days of treatment	0 level plants	1 level plants	2 level plants	3 level plants	4 level plants	Total number of treatment plants	Disease index percent
WT	5	9	7	2	1	0	19	18.42
	8	7	6	0	5	0		31.58
	13	7	5	1	3	3		36.84
	18	7	5	0	1	6		42.11
P31	5	12	2	0	3	0	15	18.33
	8	11	0	1	0	4		30.00
	13	7	2	1	1	4		38.33
	18	7	2	0	1	5		41.67
P33	5	11	2	0	3	0	16	17.19
	8	8	3	1	2	2		29.68
	13	6	3	2	2	3		39.06
	18	5	2	3	2	4		46.88
Line 4	5	11	11	2	8	0	32	30.47
	8	10	9	1	6	6		41.41
	13	4	8	5	8	7		53.13
	18	4	5	7	4	12		61.72
Line 7	5	7	7	2	3	0	19	30.26
	8	5	6	1	5	2		40.79
	13	2	5	4	2	6		56.58
	18	1	5	3	3	7		63.16
Line 8	5	10	10	3	6	0	29	29.31
	8	9	3	4	11	2		44.83
	13	5	6	2	10	6		55.17
	18	4	6	3	3	13		62.93

WT	5	19	1	8	0	0	28	15.18
	8	17	1	3	4	3		27.69
	13	16	1	0	2	9		38.39
	18	15	1	0	2	10		41.96
P31	5	10	8	2	1	0	21	17.86
	8	9	6	3	1	2		27.38
	13	7	6	2	2	4		38.10
	18	7	5	1	4	4		41.67
P33	5	12	9	1	1	0	23	15.21
	8	10	7	1	2	3		28.26
	13	8	6	2	2	5		39.13
	18	8	5	2	3	5		41.30
Line 4	5	8	8	3	3	0	22	26.14
	8	7	5	4	3	3		38.63
	13	5	1	7	4	5		53.41
	18	4	1	5	3	9		63.64
Line 7	5	14	2	9	3	0	28	25.89
	8	11	2	6	6	3		39.29
	13	9	1	3	7	8		53.57
	18	7	1	2	8	10		61.61

Level 0: no symptoms; Level 1: wilting of the lower leaves; Level 2: wilting of the upper plant leaves too; Level 3: constriction of the residual part of the stem or lodging due to stem base constriction; Level 4: whole plant death.

**Supplementary Table S2.** Primers names and their sequences used for vector construction in this study.

Oligo Name	Primer Abbreviation	Primer Sequence (5'-3')
	CaSBP12-gfp2-F	GCTCTAGAATGTTGGACTATGACTGGGGAG
	CaSBP12-gfp2-R	GGGGTACCTGGTCTTTGCCTAAAACAATCC
<i>CaSBP12</i>	CaSBP12-vigs-F	CGGGATCCATCCTCCGTTATGCTTTCTGGC
	CaSBP12-vigs-R	GGGGTACCTACCTTGGGAATGGGTGAAACA
	CaSBP12-PBI121-F	GCTCTAGAATGTTGGACTATGACTGGGGAG
	CaSBP12-PBI121-R	CGGGATCCTGGTCTTTGCCTAAAACAATCC

**Supplementary Table S3.** Primers names and their sequences used in this study for quantitative real-time PCR.

Oligo Name	Primer Abbreviation	Primer Sequence (5'-3')
	RTSBPzunla-12-F	ATCCTCCGTTATGCTTTCTGGC
	RTSBPzunla-12-R	TACCTTGGGAATGGGTGAAACA
<i>CaSBP12</i>	RTC <i>CaSBP12</i> -VIGS-F	GTTTCACCCATTCCCAAGGTAATT
	RTC <i>CaSBP12</i> -VIGS-R	TAGTACGTCGGTAAAGTCGATTAACAA
<i>Nbactin-97</i>	NbACTIN-F	TATGGAAACATTGTGCTCAGTGG
	NbACTIN-R	CCAGATTCGTCATACTCTGCC
<i>CaActin2</i>	CaActin2-F	TCCACCTCTTCACTCTCTGCTC
	CaActin2-R	TGACCCATCCCTACCATAACAC
<i>CaSBP04</i>	RTSBPzunla-4-F	ATGACAAATTATCAACACCAGCA
	RTSBPzunla-4-R	AAGCAAATACGTTCTCCCG
<i>CAPO1</i>	CAPO1-F	GGCGCCAGGATTGCTGACAA
	CAPO1-R	GTGGACATAATCCTCGAAGC
<i>CADEF</i>	CADEF-F	CAAGGGAGTATGTGCTAGTGAGAC
	CADEF-R	TGCACAGCACTATCATTGCATAC
<i>CASAR82</i>	CASAR82-F	CAGGGAGATGAATTCTGAGGC
	CASAR82-R	CATATGAACCTCTATGGATTTCTG
<i>CABPR1</i>	CAPR1-F	CAGGATGCAACACTCTGGTGG
	CAPR1-R	ATCAAAGGCCGGTTGGTC
<i>NbDEF</i>	NbDEF-RT-F	AACTTGTGAGTCCCAGAG
	NbDEF-RT-R	GGATACCTTTCTACCACC
<i>NbNPR1</i>	NbNPR1-RT-F	TTACTTCACTGAAACGCCT
	NbNPR1-RT-R	CACTTCCTTTAATTCCACCT
<i>NbPR1a</i>	NbPR1a-RT-F	GTAATATCCCCTCTTGCCG
	NbPR1a-RT-R	ATGAAATCGCCACTTCCCTC
<i>NbPR1b</i>	NbPR1b-RT-F	TCAAGCTCAAACTCTCCCC
	NbPR1b-RT-R	CCACATCTTTACTGCTCCCG