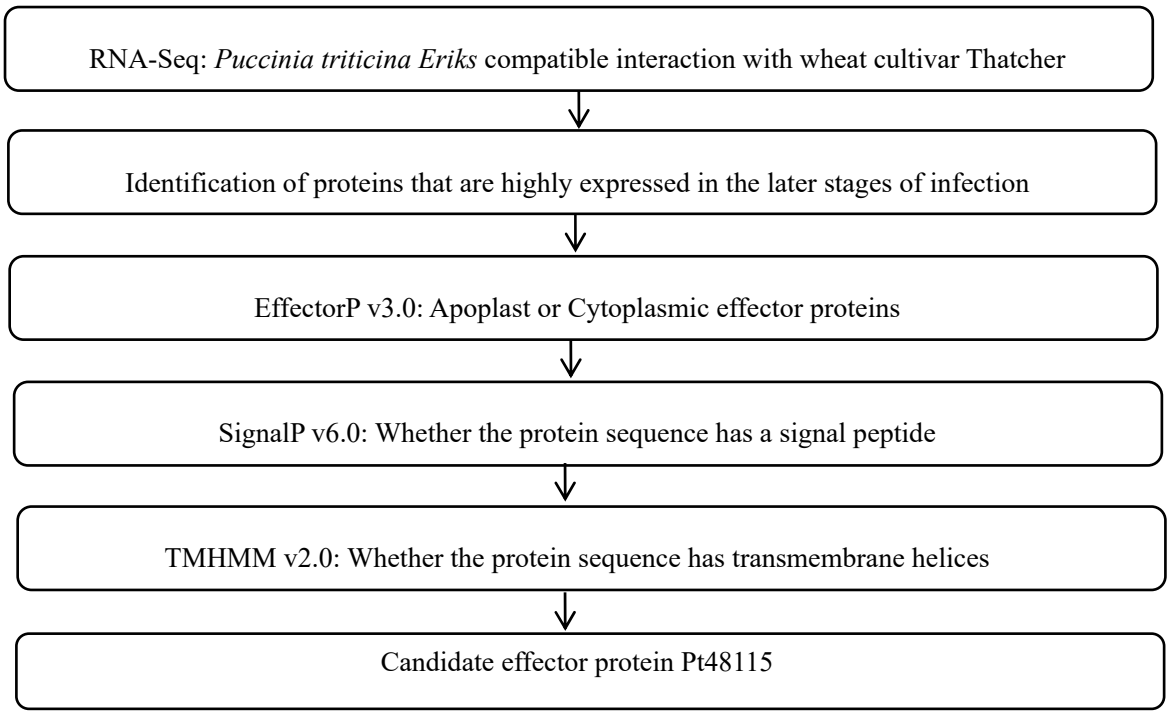


Figure S1. Procedures for screening effector proteins

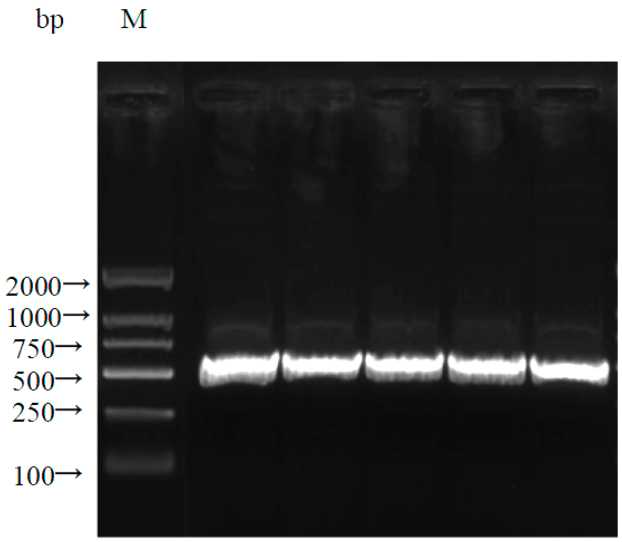
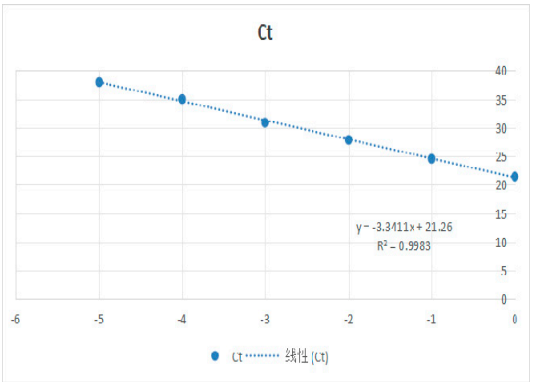


Figure S2. The ORF sequence of Pt48115 was amplified by PCR. M： DNA Marker



Figure S3. Amino acid and protein sequence of Pt48115. Red frame: the sequence of signal peptides; Green frame: the sequence of transit peptides; asterisk (*): The termination codon is not translated into proteins

A



B

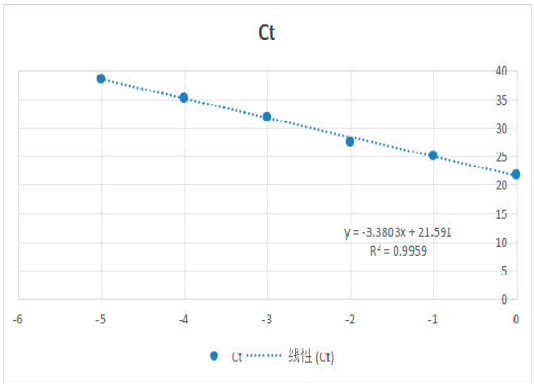


Figure S4. The PCR amplification efficiencies of the primer pairs.

A： *Pt Actin* primer pairs B： *Pt48115* primer pairs

Table S1 Primers used in this study

Primer	Sequence (5'-3')	Application
pMD19-T-Pt48115-F	ATGCGCTCTCGACAACCATC	Cloning of the target gene
pMD19-T-Pt48115-R	TCAATTCCAGGAAAGCCACG	Sequence polymorphism analysis
INFI-Pt48115-F	GTCAGCACCAGCTAGCATCGATATGCGCT CTCGACAACCATC	Verification of inhibition of PCD of *Nicotiana benthamiana*
INFI-Pt48115-R	CGCCCTTGCTCACCATCCCGGGATTCCAG GAAAGCCACG	
qPCR-Pt48115-F	CATCCCACCTCTTCCTGTATTG	Detection of Pt48115 expression
qPCR-Pt48115-R	TCTTGTGCCTTCACATGATTTCT	
pEDV6-Pt48115-F	CACCATGCGCTCTCGACAACCATC	Determination of callose deposition and H_2O_2 accumulation
pEDV6-Pt48115-R	TCAATTCCAGGAAAGCCACG	
SP-Pt48115-F	CCGGAATTCATGCGCTCTCGACAACCATC	Validation of signal peptide secretion function
SP-Pt48115-R	CCGCTCGAGTGAATCTGATACCAGCGCCA	
ΔCTP1-Pt48115-F	CATTTACGAACGATACTCGAGATGCAGAC TACCAATGTCTCCGT	Subcellular localization analysis with removal of transport peptides
ΔCTP1-Pt48115-R	CACCATCACTAGTACGTCGACATTCCAGG AAAGCCACGTTG	
Pt48115-F1	GTCAGCACCAGCTAGCATCGATGCTCCTC TATCGACTCCTTCAG	Sequence of major toxic domains
Pt48115-R1	CGCCCTTGCTCACCATCCCGGGTCAATTC CAGGAAAGCCACG	
Pt48115-R2	CGCCCTTGCTCACCATCCCGGGGGAGTTG CTGACACAGTTTGAA	
Pt48115-R3	CGCCCTTGCTCACCATCCCGGGGGTAAAC TGCTCATCGCCC	
Pt48115-F2	GTCAGCACCAGCTAGCATCGATGCTCCTC TATCGACTCCTTC	
Pt48115-R4	CGCCCTTGCTCACCATCCCGGGGACATTG GTAGTCTGCGATA	