

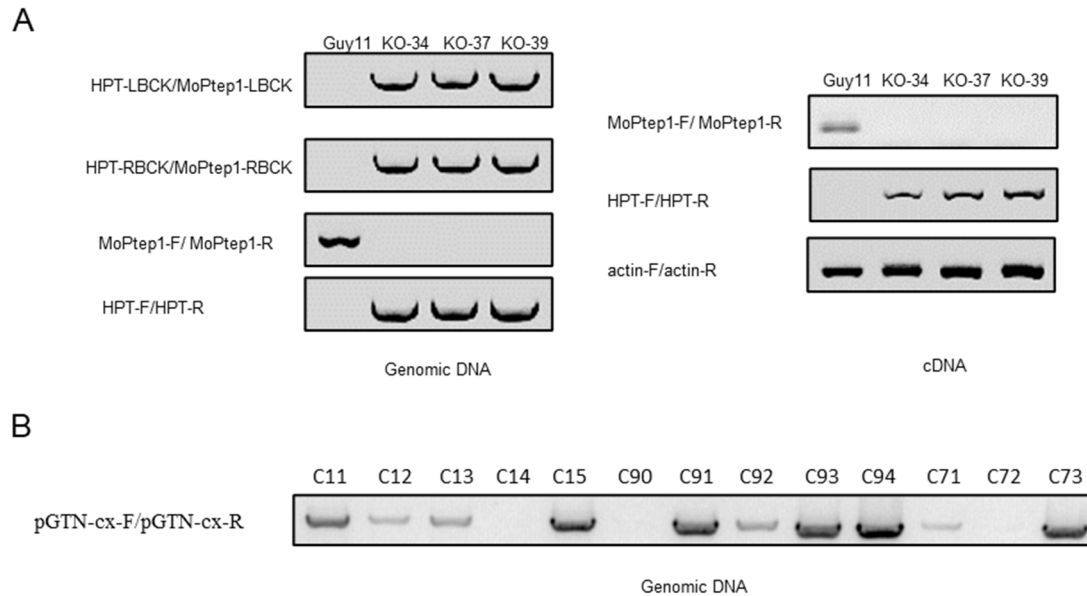
Supplemental Table S1. Primers used in this study

Primer name	Sequence (5'-3')
Secretory validation vector construction primers	
pSUC2-MoPtep1-FL-F	CGGAATTTTAATTAAGAATTCATGCGGTCTATAGCTATCCTGA
pSUC2-MoPtep1-FL-R	CACTATAGGGAGAACCTCGAGGCTGGGAGGGGGAACGGCTTG
pSUC2-MoPtep1-NS-F	CGGAATTTTAATTAAGAATTCATGCTTCAGATCCCAGACCTCC
Knockout mutant strains construction primers	
HPT-F	CTTGGCTGGAGCTAGTGGAGGT
HPT-R	CCCGGTCGGCATCTACTCTATTC
HPT-F1	CGTTGCAAGACCTGCCTGAA
HPT-R1	GGATGCCTCCGCTCGAAGTA
HPT-LBCK	GACAGACGTCGCGGTGAGTT
HPT-RBCK	TCTGGACCGATGGCTGTGTAG
MoPtep1-LBCK	ACAGTGCTTGGGAATGGGAC
MoPtep 1-LB-R	ACCTCCACTAGCTCCAGCCAAGGATGAAATCATGGCTAGATT
MoPtep 1-RBCK	CTCATCCAGCGTCAAGGCCA
MoPtep 1-RB-F	GAATAGAGTAGATGCCGACCGGGGAAGATTTGGATGCAGCAAC
MoPtep 1-LB-F	TCGAGTCGTTCTCCAAGTTT
MoPtep 1-RB-R	TTCACCACTCCGACAGGTAC
Knockout mutant strain checking primers	
MoPtep1-F	ATGCGGTCTATAGCTATCCT
MoPtep1-R	TTAGCTGGGAGGGGGAACGG
Complementary strains construction primers	
C-MoPtep1-pGTN-F-1	GGGAACAAAAGCTGGGTACCGAGAAGCTCGTGGCCGTGTC
C-MoPtep1-pGTN-R	ATTCTAGAACTAGTGGATCCGCTGGGAGGGGGAACGGCTT
Complementary strains checking primers	
pGTN-cx-F	CATTAGGCAC CCCAGGCTTT
pGTN-cx-R	TCGTGACCA CCCTGACCTAC
<i>MoPtep1</i> expression primers	

RT-MoPtep1-qF	TCAGATCCCAGACCTCCTG
RT-MoPtep1-qR	CGTGACTGTATGGTTGTTTG
RT-Mo-Actin-qF	TGACGTCCGAAAGGATCTGT
RT-Mo-Actin-qR	CCTGCTTCGAGATCCACATC
Subcellular localization and cell death observation primers	
MoPtep1-FL-GFP-F	CGCTCTAGAACTAGTGGATCCATGCGGTCTATAGCTATCCT
MoPtep1-FL-GFP-R	GGGCCCCCCTCGAGGTCGACGCTGGGAGGGGGAACGGCTT
MoPtep1-NS-GFP-F	CGCTCTAGAACTAGTGGATCCATGCTTCAGATCCCAGACCT

Supplemental Table S2. Information on candidate interacting proteins of MoPtep1

Name	Number of amino acids/aa	GenBank accession	Gene description	Extend information
HZ-7	270	XP_015646760.1	momilactone A synthase-like	Momilactone: An antibacterial compound found in husks of rice, a natural defense substance that has the activity of suppressing the growth of pathogens such as blast fungus.
IP-4	177	XP_015618577.1	thaumatin-like protein	This family is also referred to as pathogenesis-related group 5 (PR5), as many thaumatin-like proteins accumulate in plants in response to infection by a pathogen and possess antifungal activity.
HZ-4	152	XP_040380872.1	plastocyanin, chloroplastic	Plastocyanin; Plastocyanin is a type I copper protein and functions in the electron transfer from PSII to PSI.



Supplemental Figure S1: Identification of the transformants using PCR method. (A) identification of *MoPtep1* ko mutant strains via PCR method. Use the Split-PCR method to knock out the *MoPtep1* gene. Using wild-type strains and transformants' genomic DNA as templates, primers were used to amplify corresponding bands to verify transformants. At the same time, RT-PCR was used for testing. *MoPtep1*-F/*MoPtep1*-R cannot amplify bands were the correct knockout strains. (B) identification of the complementary strain of *MoPtep1* via PCR method. Use vector pGTN to construct *MoPtep1* complementary vector, transform the constructed vector into the protoplasts of *MoPtep1* ko mutant strains, and screen with G418-resistant plates, Use pGTN-cx-F/pGTN-cx-R for PCR screening of the grown transformants, and amplify the corresponding bands of the positive transformants.