

MRAAALIPLAIGLVAAGPVEKRQNFNFAIAADRADEIAAISADNLGPVDPVV
 LATTVVEATSAYDATAAIAAAATSAVTAVVEKREACQTYSGAGPVVTAPS DWV
 NAEVLTPALTADVPSGYEAAPSFTNLQGAVQQMGYLTVKTLDSYSPAQCASY
 CDDEPLCMGFNVYFERDPSEDTSCASDGNPDSITTIACTLYAYHVAASKATNTG
 QYRDNFQVVITGSNGYNKDSSKQSFTSIDGYQAPQNFEDACINAPTYNDFDSY
 ITYTTYTDAYDPRVCAKACDAQTEYDKEHPNDDQEYKACNYFVAYVMAKNE
 EPQGLFCALYSLPWNSTYAVNTGYSWSSDVYTIYNSLAYTVSGDLDFGNNEEI
 EDFVYEDAN

Figure S1. LtCSEP1 is predicted to be a secreted protein. LtCSEP1 contains 380 amino acids with a predicted molecular size of 41 kD. The 16 amino acids located at the N-terminal of LtCSEP1 were predicted to be the signal peptide of LtCSEP1.

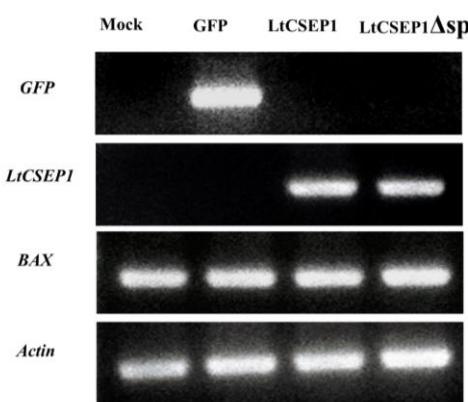


Figure S2. Gene expression in *N. benthamiana* leaf tissues expressing GFP, LtCSEP1 and BAX was analyzed by reverse-transcriptase polymerase chain reaction (RT-PCR). The actin gene of *N. benthamiana* was used as an internal standard.

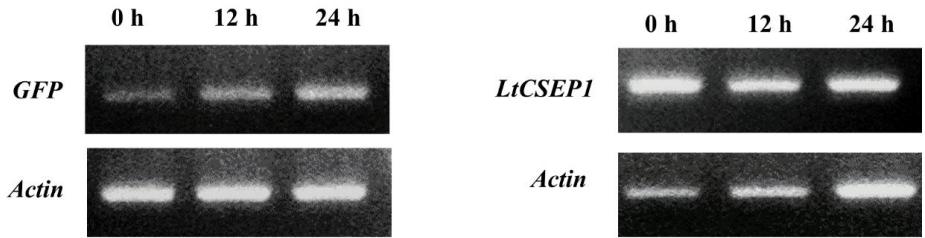


Figure S3. Gene expression in *N. benthamiana* leaf tissues expressing LtCSEP1 or the control GFP after the treatment of flg22 was analyzed by RT-PCR. The actin gene of *N. benthamiana* was used as an internal standard.

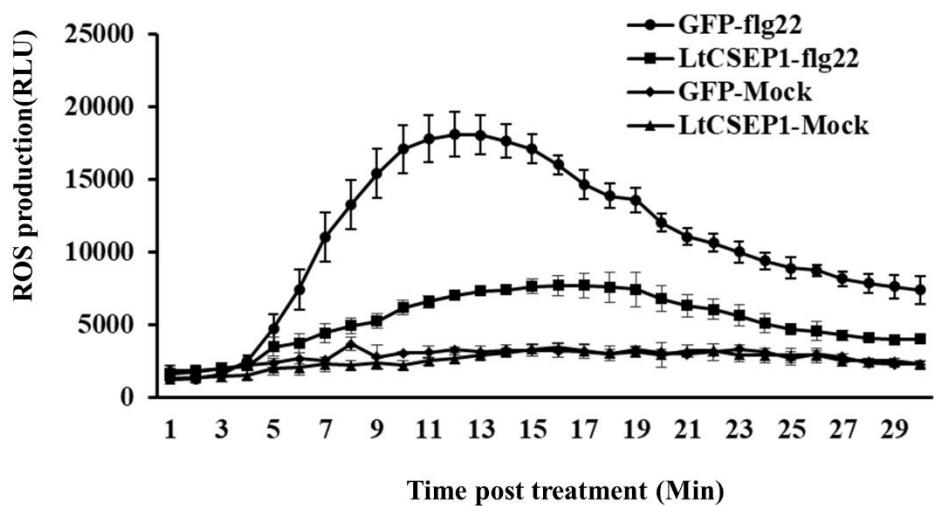


Figure S4. LtCSEP1 suppressed Flg22-induced ROS in *Nicotiana benthamiana*.

Table S1. Primers used in this study.

Primer name	Primer sequence (5'-3')
Primers for vector construction	
CSEP1SP-EF	TTTATGAATTCATGCGGCCGCAGCCCTC
CSEP1SP-XR	TAATACTCGAGACGGTCAGCCGCAATAG
CSEP1B-SmF	ACCCGGGATGGGCCCTGTGGAAAAGC
CSEP1B-XIR	TCTCGACGTTGGCGTCTCGTAAACG
CSEP1G-BIF	GGGATCCATGGGCCCTGTGGAAAAGC
CSEP1G-XIR	TCTCGACGTTGGCGTCTCGTAAACG
Primers for vector construction	
Actin-RT-F1	AATCGTGAGGGATGTGAAGG
Actin-RT-R1	GCATTTCTGTGCACAATGG
BAX-RT-F	ATCGATATGGACGGTCCGGGGAG
BAXRT-R	GTCGACTCAGCCCATCTTCTCCAGATGG
GFP-RT-F1	GACGTAAACGGCCACAAGTT
GFP-RT-F2	CTCCAGCAGGACCATGTGAT
CSEP1-RT-F	TACCTGACTGTCAAGACC
CSEP1-RT-R	TTGTAGATGGTAGACG
Primers for qRT-PCR	
NbEF1 α -qF	AAGGTCCAGTATGCCTGGTGCTTGAC
NbEF1 α -qR	AAGAATTCACAGGGACAGTTCCAATACCA
LtActin-qF	TCTTCGCTCGAGAACGTCGA
LtActin-qR	ACAATGGAAGGTCCGCTCTC
NbPR1a-qF	GTGCCAAAATTCTCAACAAG
NbPR1a-qR	TTCTACACCTACATCTGCACGAG
NbPR2-qF	TCCAGATACAAATGTCTTCAACG
NbPR2-qR	TGGGACGTCGAGAACATGATCT
NbPR1b-qF	GTGGACACTATACTCAGGTG
NbPR1b-qR	TCCAAC TTGGAATCAAAGGG

NbLOX-qF	AGAAATGGATGTCCACCTTGA
NbLOX-qR	GGACTCATCCCAGTCAAATGTC
NbERF1-qF	GCGAAGTAAAATCGGAGCA
NbERF1-qR	CCTTCCCCTAGGTAACTCAGC
NbWRKY12-F	CTCATCAGCTAGTTCATTGATGC
NbWRKY12-R	AGCTCGGTCTTGTCTAAAAGC
NbAcre31-qF	AATTGGGCCATCGTGATCTGGTC
NbAcre31-qR	GAGAAACTGGGATTGCCTGAAGGA
NbGras2-qF	TACCTAGCACCAAGCAGATGCAGA
NbGras2-qR	TCATGAGGC GTTACTCGGAGCATT
NbPt15-qF	CCTCCAAGTTGAGCTCGGATAGT
NbPt15-qR	CCAAGAAATTCTCCATGCACTCTGTC
