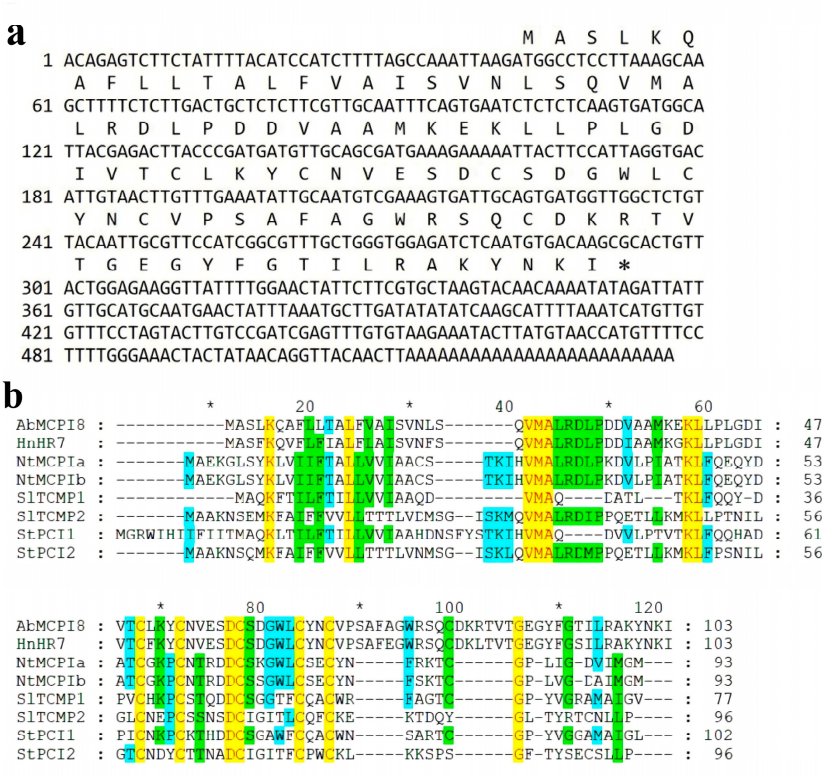

Supplementary Figure S1. Coding sequence of *AbMCPI8* and multiple alignments of plant MCPIs. a. The coding region and translated amino acid sequence of *AbMCPI8*; b. Multiple alignments of MCPIs from several different plant species. *HnHR7*, *NtMCPIa*, *NtMCPIb*, *SlTCMP1*, *SlTCMP2*, *StPCI1* and *StPCI2* represent MCPI sequences from *H. niger*, *Nicotiana tabacum*, *S. lycopersicum* and *S. tuberosum* respectively, which are accessible from the NCBI database.

Supplementary Table S1. Primers used for gene expression analysis in this study.

Primer	Sequence (5`-3`)
AbMCPI-CDS-F	ACAGAGTCTTCTATTTTACATCC
AbMCPI-CDS-R	GTTCATTGCATGCAACAATAATC
AbMCPI-RACE-3`-1	TCTTCGTGCTAAGTACAACAAAAT
AbMCPI-RACE-3`-2	GCATGCAATGAACTATTTAAATGC
AbMCPI-VIGS-F	cgcCTCGAGGATGAAAGAAAAATTACTTC
AbMCPI-VIGS-R	cgcGGTACCAGTTGTAACCTGTTATAGTA
PGK-Q-F	CAGATACCGTCCTAGTCTCAAC
PGK-Q-R	CAGCCTTGCGACCATACTC
AbMCPI-Q-F	TGATGGCATTACGAGACT
AbMCPI-Q-R	AACAAGTTACAATGTCACCTAA