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Reporting Summary

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For	all statistical analyses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.
n/a	Confirmed
	The exact sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement
	A statement on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly
	The statistical test(s) used AND whether they are one- or two-sided Only common tests should be described solely by name; describe more complex techniques in the Methods section.
	A description of all covariates tested
	A description of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons
	A full description of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient) AND variation (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)
	For null hypothesis testing, the test statistic (e.g. <i>F</i> , <i>t</i> , <i>r</i>) with confidence intervals, effect sizes, degrees of freedom and <i>P</i> value noted <i>Give P values as exact values whenever suitable.</i>
\boxtimes	For Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo settings
	For hierarchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes
	Estimates of effect sizes (e.g. Cohen's <i>d</i> , Pearson's <i>r</i>), indicating how they were calculated

Our web collection on <u>statistics for biologists</u> contains articles on many of the points above.

Software and code

Policy information about availability of computer code

Data collection

BIO-RAD CFX software(version: 3.1) for qRT-PCR, PAM-2500 instrument (Heinz Walz Company, Germany) for chlorophyll fluorescence assay; CellSens Entry software (version: V1.7) for infection areas;

Data analysis

ImageJ software (version: 1.60) for analysis of Callose deposits; CellSens Entry software (version: V1.7) for analysis of length of hyphae and infection area; SignalP 4.0 (http://www.cbs.dtu.dk/services/SignalP/) for predication of signal peptide; Compute pl/Mw tool (http://web.expasy.org/compute_pi/) for molecular size of protein; LOCALIZER (http://localizer.csiro.au/index.html) and Wolf PSORT II (https://www.genscript.com/wolf-psort.html) for the localization of the secreted protein; HMMER software (http://www.ebi.ac.uk/Tools/hmmer/) for Protein domains;

For manuscripts utilizing custom algorithms or software that are central to the research but not yet described in published literature, software must be made available to editors/reviewers. We strongly encourage code deposition in a community repository (e.g. GitHub). See the Nature Research guidelines for submitting code & software for further information.

Data

Policy information about <u>availability of data</u>

All manuscripts must include a data availability statement. This statement should provide the following information, where applicable:

- Accession codes, unique identifiers, or web links for publicly available datasets
- A list of figures that have associated raw data
- A description of any restrictions on data availability

Data supporting the findings of this work are available within the paper and its Supplementary Information files. GenBank accessions include AAM88439 for TalSP genes, XP_016485041 for NblSP gene, KNE93802 for Pst_12806. The authors declare that the other data supporting the findings of this study are available from the corresponding author upon request.

Field-spe	cific reporting				
Please select the or	ne below that is the best fit for your research. If you are not sure, read the appropriate sections before making your selection.				
Life sciences	Behavioural & social sciences Ecological, evolutionary & environmental sciences				
For a reference copy of t	he document with all sections, see nature.com/documents/nr-reporting-summary-flat.pdf				
Life sciences study design					
All studies must dis	close on these points even when the disclosure is negative.				
Sample size	4-week-old N. benthamiana for transiently expression; the second leaves for inoculation of virus or Pst; Fifty infection sites on the three leaves were analyzed for hyphal length, haustorium count and infection area.				
Data exclusions	No data were excluded from the analyses. all data were used in this study in the origin data file.				
Replication	Six independent biological replications were performed for HIGS assay and three independent biological replication for other assays. all biological replications confirmed the similar results.				
Randomization	Four tobacco (8-10 leaves) were randomly distributed into one group for cell death assay. 30-35 wheat leaves for infiltration of virus and 25-30 wheat leaves were randomly allocated for HIGS and VIGS assay. 8-10 leaves of tobacco and wheat were randomly distributed for detection of chlorophyll fluorescence and ETR.				
Blinding	The investigators were blinded to group allocation during the experiment and analysis.				
Reportin	g for specific materials, systems and methods				
	on from authors about some types of materials, experimental systems and methods used in many studies. Here, indicate whether each material, ed is relevant to your study. If you are not sure if a list item applies to your research, read the appropriate section before selecting a response.				
Materials & ex	perimental systems Methods				
n/a Involved in th					
Antibodies	ChIP-seq				
Eukaryotic	cell lines				
Palaeontol	ogy MRI-based neuroimaging				
Animals an	Animals and other organisms				
Human research participants					
Clinical data					
Antibodies					

Antibodies used

rabbit anti-GFP, cat. no. 50430-2-AP, Proteintech Group; mouse anti-GFP, cat. no. sc-9996, Santa Cruz Biotechnology; mouse anti-HA, cat. no. H3663, Sigma-Aldrich; a secondary goat anti-mouse IgG (whole molecule)-peroxidase-conjugate antibody, cat. no. sc-516102, Santa Cruz Biotechnology

Validation

abbit anti-GFP, cat. no. 50430-2-AP,Rabbit Polyclonal,WB, IP, IHC, IF, ELISA (https://www.ptgcn.com/Products/eGFP-Antibody-50430-2-AP.htm); mouse anti-GFP, cat. no. sc-9996,mouse IgG2a ĸ,WB, IP, IF, FCM, ELISA (https://www.scbt.com/zh/p/gfp-antibody-b-2/;jsessionid=fQjX0mynSTobDkEH0SXGedNmsEjegWcTGb7GoWJHk_hpyG838ReE!711723271);mouse anti-HA, cat. no. H3663,Monoclonal Anti-HA antibody produced in mouse,immunocytochemistry,immunoprecipitation,western blot (https://www.sigmaaldrich.com/catalog/product/sigma/h3663?lang=zh®ion=CN)