## nature portfolio

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## **Reporting Summary**

Nature Portfolio wishes to improve the reproducibility of the work that we publish. This form provides structure for consistency and transparency in reporting. For further information on Nature Portfolio policies, see our <u>Editorial Policies</u> and the <u>Editorial Policy Checklist</u>.

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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
	$\square$ 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.
X	A description of all covariates tested
X	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>
X	For Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo settings
X	For hierarchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes
$\times$	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 <u>availability of computer code</u>

Data collection

Leica, Confocal laser scanning microscope TCS SP8X (Leica Microsystems) for fluorescence microscopy; ChemiDoc Touch Imaging System (Bio-RAD) for Western Blot, Cannon G11 camera for photographing disease assays and fungal morphology.

Data analysis

SignalP was used to identify secreted proteins and their SPs. BlastP analysis was done on the website of NCBI(http://www.ncbi.nlm.nih.gov/); SAS Views for statistical analysis; originPro8 software for graphing

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 and reviewers. We strongly encourage code deposition in a community repository (e.g. GitHub). See the Nature Portfolio guidelines for submitting code & software for further information.

## Data

Policy information about availability of data

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 description of any restrictions on data availability
- For clinical datasets or third party data, please ensure that the statement adheres to our <u>policy</u>

The data that support the findings of this study are available within this paper, its supplementary information files, and the source data file. Accession numbers for all proteins referred to this manuscript are given in data availability section and are accessible from NCBI (https://www.ncbi.nlm.nih.gov/).

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Field-spe	ecific reporting				
Please select the o	one below that is the best fit for	your research. If you are not sure, read the appropriate sections before making your selection.			
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Life scier	nces study des	ign			
All studies must dis	sclose on these points even whe	en the disclosure is negative.			
Sample size	were small between replicates an Sample sizes in the plant infection	No statistic methods were used to pre-determine sample size. For fungal growth assays we had three biological replicates. The variations were small between replicates and differences were significant between groups. Experiments were performed three times to confirm results ample sizes in the plant infection experiments were based on previous studies in Sclerotinia sclerotiorum, where usually three biological eplicates have provided statistical significant findings and based on prior experience. Six biological replicates were used in infection of trabidopsis.			
Data exclusions	No data were excluded				
Replication		periments were subject three independent biological replications unless otherwise stated. Number of repeats is given in the figure d. Technical replications were also carried out as stated in the text.			
Randomization	individual batches were randomly	xperimental observations were carried out without pre-selection of groups. Leaves of pea and Arabidopsis plants from the same vidual batches were randomly assigned to treatment groups for check, WT S. sclerotiorum and mutant strains for inoculation. No other as of randomization was relevant to this study.			
Blinding	_	Blind testing was not carried out in the study as it was not relevant to the experiments carried out as these were based on molecular genetic and biochemical characterizations of the SsPINE1, SsPG1 and AtPGIP1 genes, requiring knowledge of the samples to be processed.			
Reportin	ng for specific r	naterials, systems and methods			
We require informati	ion from authors about some types	of materials, experimental systems and methods used in many studies. Here, indicate whether each material, 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 the	he study	n/a Involved in the study			
Antibodies		ChiP-seq			
Eukaryotic cell lines		Flow cytometry			
Palaeontology and archaeology MRI-based neuroimaging					
Animals and other organisms  Human research participants					
Clinical data					
	esearch of concern				
—,—					
Antibodies					
Cruz Biotechnology Cat SC Chemiluminescence West In Vitro Pulldown: Anti-G		on: anti-Actin antibodies (Sigma-Aldrich Cat No. A3853; 1:10,000 dilution); GFP(B-2) HRP antibodies (Santa iC-9996 HRP; 1:400 dilution); Anti-FLAG M2 mAb (Sigma-Aldrich Cat SLRW 9109; 1:10,000 diltuion); BM stern Blotting Kit (Mouse/Rabbit), Roche Diagnostics; anti-Myc (Invetro.gen) GFP Nanobody Affinity Gel (Biolegend Cat 689302), Anti-Flag M2 Affinity Gel (Sigma-Aldrich Cat A2200); (RABBIT) Antibody (ROCKLAND Cat No.666-401-382S)			
		antibodies are available on the manufacturer's websites: anti-Actin antibodies (https://			

antibodies (Santa Cruz Biotechnology Cat SC-9996 HRP) (https://www.scbt.com/p/gfp-antibody-b-2); Anti-FLAG M2 mAb (Sigma-Aldrich Cat SLRW 9109) (https://www.sigmaaldrich.com/catalog/product/sigma/f3165?

lang=en&region=US&gclid=EAIaIQobChMIzp7Zobqa5gIVCttkCh0M-genEAAYAyAAEgIvrfD\_BwE); Anti-Myc antibodies (https://  $www.thermofisher.com/antibody/product/c-Myc-Antibody-clone-9E10-3-Monoclonal/MA5-12080); BM\ Chemilumine scence$ Western Blotting Kit, (https://www.sigmaaldrich.com/catalog/product/roche/11520709001?lang=en&region=US); Anti-GFP Nanobody Affinity Gel (Biolegend Cat 689302) (https://www.sigmaaldrich.com/catalog/search?interface=All&term=ANTI-FLAG+M2  $+ Affinity + Agarose + Gel\&N = 0\&mode = partial max\&focus = product\&lang = en\&region = US); \ Anti-Flag M2 \ Affinity \ Gel \ (Sigma-Aldrich \ Cathering M2 \ Affinity \ Gel \ (Sigma-Aldrich \ Cathering \ M2 \ Affinity \ Gel \ (Sigma-Aldrich \ Cathering \ M2 \ Affinity \ Gel \ (Sigma-Aldrich \ Cathering \ M2 \ Affinity \ Gel \ (Sigma-Aldrich \ Cathering \ M2 \ Affinity \ Gel \ (Sigma-Aldrich \ Cathering \ M2 \ Affinity \ Gel \ (Sigma-Aldrich \ Cathering \ M2 \ Affinity \ Gel \ (Sigma-Aldrich \ Cathering \ M2 \ Affinity \ Gel \ (Sigma-Aldrich \ Cathering \ M2 \ Affinity \ Gel \ (Sigma-Aldrich \ Cathering \ M2 \ Affinity \ Gel \ (Sigma-Aldrich \ Cathering \ M2 \ Affinity \ Gel \ (Sigma-Aldrich \ Cathering \ M2 \ Affinity \ Gel \ (Sigma-Aldrich \ Cathering \ M3 \ Aldrich \ M3 \$ A2200) (https://www.sigmaaldrich.com/catalog/search?interface=All&term=ANTI-FLAG+M2+Affinity+Agarose

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