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Reporting Summary

x Life sciences

Nature Research 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 Research policies, seeAuthors & Referees and theEditorial Policy Checklist.

Statistics				
For all statistical analys	ses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.			
n/a Confirmed				
The exact san	nple 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			
	l test(s) used AND whether they are one- or two-sided tests should be described solely by name; describe more complex techniques in the Methods section.			
A description	of all covariates tested			
A description	A description of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons			
	tion of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient) in (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)			
For null hypo Give P values a	thesis testing, the test statistic (e.g. F , t , r) with confidence intervals, effect sizes, degrees of freedom and P value noted s exact values whenever suitable.			
For Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo settings				
For hierarchic	cal and complex designs, identification of the appropriate level for tests and full reporting of outcomes			
Estimates of	effect sizes (e.g. Cohen's d , Pearson's r), indicating how they were calculated			
	Our web collection on <u>statistics for biologists</u> contains articles on many of the points above.			
Software and o	code			
Policy information abo	out <u>availability of computer code</u>			
Data collection	Provide a description of all commercial, open source and custom code used to collect the data in this study, specifying the version used OR state that no software was used.			
Data analysis	Provide a description of all commercial, open source and custom code used to analyse the data in this study, specifying the version used OR state that no software was used.			
	tom algorithms or software that are central to the research but not yet described in published literature, software must be made available to editors/reviewers. deposition in a community repository (e.g. GitHub). See the Nature Research guidelines for submitting code & software for further information.			
Data				
 Accession codes, ur A list of figures that 	out <u>availability of data</u> include a <u>data availability statement</u> . This statement should provide the following information, where applicable: nique identifiers, or web links for publicly available datasets have associated raw data y restrictions on data availability			
All data generated or an	nalysed during this study are included in this published article (and its supplementary information files).			
Field-snec	ific reporting			

Please select the one below that is the best fit for your research. If you are not sure, read the appropriate sections before making your selection.

Ecological, evolutionary & environmental sciences

Life sciences study design

All studies must dis	ose on these points even when the disclosure is negative.	
Sample size	We selected sample size in accordance with the sample sizes used in our previous publications, data of which were validated in	multiple ways.
Data exclusions	o data were excluded.	
Replication	All attempts at replication was successful.	
Randomization	Plant samples were randomly chosen for assays.	
Blinding	nvestigators were blinded to group allocation during data collection.	
We require informative ystem or method list Materials & exployed in the second of the	ChIP-seq Flow cytometry	,
Antibodies used	anti ARF19, home-made antibody	
Validation	Reference for the antibody is provided in Methods section of the manuscript.	