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Reporting Summary

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, see our Editorial Policies and the Editorial Policy Checklist.

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Statistics				
For all statistical analyses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.				
/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 Give <i>P</i> values as exact values whenever suitable.				
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 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 code				
Policy information about <u>availability of computer code</u>				
Data collection Images were acquired with a Zeiss LSM 880 NLO confocal microscope.				
Data analysis The confocal microscope software was used to analysis the images.				
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 Research 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 list of figures that have associated raw data
- A description of any restrictions on data availability

Source data are provided with this paper.

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Lite	science	s study	y design

Commonly misidentified lines (See <u>ICLAC</u> register)

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All studies must dis	sclose on these points even v	when the disclosure is negative.		
Sample size	No statistical method was used to predetermine sample size.			
Data exclusions	No data were excluded from this study.			
Replication	All experiments were repeated	All experiments were repeated N = 3-4 independently and showed similar results.		
Randomization	No randomization was applica	ndomization was applicable to the current study.		
Blinding	The experiments are unblinde	The experiments are unblinded.		
We require informati	on from authors about some typ	materials, systems and methods pes of materials, experimental systems and methods used in many studies. Here, indicate whether each material, you are not sure if a list item applies to your research, read the appropriate section before selecting a response.		
,	perimental systems	Methods		
n/a Involved in th	,	n/a Involved in the study		
Antibodies		ChIP-seq		
Eukaryotic	cell lines	Flow cytometry		
	ogy and archaeology	MRI-based neuroimaging		
=1=	nd other organisms			
Human res	search participants			
	esearch of concern			
Dual use le	escarcin of concern			
Eukaryotic c	ell lines			
Policy information	about <u>cell lines</u>			
Cell line source(s)	HeLa cells we	re used in this study.		
Authentication	HeLa cells we	re obtained from ATCC.		
Mycoplasma conta	Cells were routinely assessed for mycoplasma and tested negative.			

There are no commonly misidentified cell lines.