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 <u>Authors & Referees</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 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 AND variation (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals) For null hypothesis testing, the test statistic (e.g. F, t, r) with confidence intervals, effect sizes, degrees of freedom and P value noted Give P 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 None				
Data analysis None				
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 <u>pudelines for submitting code & software</u> for further information.				

Data

- Policy information about <u>availability of data</u>
 All manuscripts must include a <u>data availability statement</u>. This statement should provide the following information, where applicable:
 Accession codes, unique identifies, or web links for publicly available datasets
 A list of figures that have associated raw data
 A description of any restrictions not data availability

The authors declare that the data supporting the findings of this study are available within the paper and its supplementary information files

Field-specific 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. Life sciences Behavioural & social sciences Ecological, evolutionary & environmental sciences

Life sciences study design

Sample size	Describe how sample size was determined, detailing any statistical methods used to predetermine sample size OR if no sample-size calcu was performed, describe how sample sizes were chosen and provide a rationale for why these sample sizes are sufficient.
Data exclusions	Describe any data exclusions. If no data were excluded from the analyses, state so OR If data were excluded, describe the exclusions and rationale behind them, indicating whether exclusion criteria were pre-established.
Replication	Describe the measures taken to verify the reproducibility of the experimental findings. If all attempts at replication were successful, confi OR if there are any findings that were not replicated or cannot be reproduced, note this and describe why.
Randomization	Describe how samples/organisms/participants were allocated into experimental groups. If allocation was not random, describe how cover were controlled OR if this is not relevant to your study, explain why.
Blinding	Describe whether the investigators were blinded to group allocation during data collection and/or analysis. If blinding was not possible, describe why OR explain why blinding was not relevant to your study.

Reporting for specific materials, systems and methods

Mycoplasma contamination HeLa-OC cells were tested negative for mycoplasma. Commonly misidentified lines (See [CLAC register] No commonly misidentified cell lines were used.

We require information from authors about some types of materials, experimental systems and methods used in many studies. Here, indicate whether each materi
system or method listed 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

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Materials & experimental sy	rstems Methods				
n/a Involved in the study	n/a Involved in the study				
Antibodies	□ ChIP-seq				
☐ X Eukaryotic cell lines	☐ Flow cytometry				
Palaeontology	MRI-based neuroimaging				
Animals and other organism	,				
Human research participant					
Clinical data					
'					
Eukaryotic cell lines					
Policy information about cell lines					
Cell line source(s)	Human HeLa-OC cell line was provided by Prof. Wen-Sheng Wei, School of Life Sciences, Peking University, Beijing, China.				
Authentication	None of the cell lines used in this study was authenticated by the authors.				