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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 <u>Editorial Policies</u> and the <u>Editorial Policy Checklist</u>.

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For	ali statisticai ar	halyses, confirm that the following items are present in the figure legend, table legend, main text, or Methods Section.				
n/a	Confirmed					
	The exact	t sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement				
\boxtimes	A stateme	ent on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly				
	The statis Only comn	stical test(s) used AND whether they are one- or two-sided mon tests should be described solely by name; describe more complex techniques in the Methods section.				
\boxtimes	A descrip	ption of all covariates tested				
	A descrip	ption of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons				
	A full des	scription of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient) iation (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)				
\boxtimes		Ill hypothesis testing, the test statistic (e.g. F , t , r) with confidence intervals, effect sizes, degrees of freedom and P value noted values as exact values whenever suitable.				
\boxtimes	For Bayes	Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo settings				
\boxtimes	For hierarchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes					
\boxtimes	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						
Poli	cy information	about <u>availability of computer code</u>				
Da	ata collection	N/A				
Da	Data analysis GraphPad Prism (version 9.3.1); R Studio (version 1.2.5033)					
	,	g 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 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

All other data supporting the findings of this manuscript are available from the corresponding author (MMB) upon reasonable request. We also have included raw data as supporting information

Field-spe	ecific re	eporting		
Please select the o	ne below that i	is the best fit for your research. If you are not sure, read the appropriate sections before making your selection.		
X Life sciences	E	Behavioural & social sciences Ecological, evolutionary & environmental sciences		
For a reference copy of	the document with	all sections, see <u>nature.com/documents/nr-reporting-summary-flat.pdf</u>		
Life scier	nces sti	udy design		
All studies must dis	sclose on these	points even when the disclosure is negative.		
Sample size	Not relevant to	the current clinical study		
Data exclusions	No relevant da	ta were excluded to the best of my knowledge		
Replication	Not relevant to	the current clinical study		
Randomization	Not relevant to	Not relevant to the current clinical study		
Blinding	Not relevant to	the current clinical study		
Reporting for specific materials, systems and methods We require information from authors about some types of materials, experimental systems and methods used in many studies. Here, indicate whether each material, 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. Materials & experimental systems Methods Nethods Natibodies ChIP-seq Eukaryotic cell lines Flow cytometry Palaeontology and archaeology MRI-based neuroimaging				
Animals and other organisms Human research participants Clinical data Dual use research of concern Eukaryotic cell lines				
Policy information about <u>cell lines</u>				
Cell line source(s		Vero E6 cells, ATCC		
Authentication	,	None		
Mycoplasma con	tamination	The cells were negative for mycoplasma contamination		
Commonly misid (See <u>ICLAC</u> register		N/A		
Human research participants				
Policy information about studies involving human research participants				
Population chara	ecteristics	See Table 1 in the manuscript		
Pocruitmont		This has been described in detail in a previous report (open access), ref. 18 in the current manuscript		

Recruitment

Described under ref. 18 in the current manuscript Ethics oversight

Note that full information on the approval of the study protocol must also be provided in the manuscript.

Clinical data

Policy information about <u>clinical studies</u>

All manuscripts should comply with the ICMJE guidelines for publication of clinical research and a completed CONSORT checklist must be included with all submissions.

Clinical trial registration Not applicable as the current project was based on a non-interventional clinical study (i.e., not a trial)

Study protocol N/A (see above)

Data collection his has been described in detail in a previous report (open access), ref. 18 in the current manuscript

Outcomes N/A as this is not a clinical trial