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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 <u>Authors & Referees</u> and the <u>Editorial Policy Checklist</u>.

When statistical analyses are reported, confirm that the following items are present in the relevant location (e.g. figure legend, table legend, main

Statistical parameters

text	, or N	Methods section).
n/a	Cor	nfirmed
	\boxtimes	The exact sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement
	\boxtimes	An indication of 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.
	\boxtimes	A description of all covariates tested
\boxtimes		A description of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons
		A full description of the statistics including <u>central tendency</u> (e.g. means) or other basic estimates (e.g. regression coefficient) AND <u>variation</u> (e.g. standard deviation) or associated <u>estimates of uncertainty</u> (e.g. confidence intervals)
	\boxtimes	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>
\boxtimes		For 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 d, Pearson's r), indicating how they were calculated
	\boxtimes	Clearly defined error bars State explicitly what error bars represent (e.g. SD, SE, CI)

Our web collection on <u>statistics for biologists</u> may be useful.

Software and code

Policy information about availability of computer code

Data collection

None

Data analysis

For statistical analysis: GraphPad Prism 7

For spacer alignment to phage genome: Custom code in Python 2.7.9

For alignment to phage/CRISPR junctions: BWA-MEM (arXiv:1303.3997v1) used to align reads to junctions, and custom code in Python 2.7.9 used to bin reads.

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

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Policy information about <u>availability of data</u>

Palaeontology

Animals and other organisms Human research participants

All manuscripts must include a <u>data availability statement</u>. 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 data generated of upon request.	r analyzed during this study are included in this published article (and its supplementary information files). Raw sequencing data is available				
Field-spe	ecific reporting				
Please select the b	est 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				
For a reference copy of	the document with all sections, see <u>nature.com/authors/policies/ReportingSummary-flat.pdf</u>				
Life scier	nces study design				
	sclose on these points even when the disclosure is negative.				
Sample size	Sample sizes were not statistically predetermined.				
Data exclusions	No data was excluded from the analysis.				
Replication	All experiments were reliably replicated.				
Randomization	Not relevant to this study.				
Blinding	Not relevant to this study.				
Reportin	g for specific materials, systems and methods				
Materials & experimental systems Methods					
n/a Involved in th	· · · · · · · · · · · · · · · · · · ·				
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Antibodies					
Eukaryotic	cell lines MRI-based neuroimaging				