# natureresearch

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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>.

#### Statistical parameters

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

n/a	Соі	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			
$\boxtimes$		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			
	$\boxtimes$	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 Give <i>P</i> values as exact values whenever suitable.			
$\ge$		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 statistics for biologists may be useful.					

#### Software and code

Policy information about availability of computer code

Data collection	none
Data analysis	For analysing conjugation and growth curve experiments - used GraphPad Prism 7
	During the RNA-seq analysis: Used STAR aligner version 2.5 for mapping reads (Dobin, A. et al. STAR: ultrafast universal RNA-seq aligner. Bioinformatics 29, 15-21 (2013). Used featurecounts to count mapped reads per gene (Liao, Y., Smyth, G. K. & Shi, W. featureCounts: an efficient general purpose program for assigning sequence reads to genomic features. Bioinformatics 30, 923-930 (2014)

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.

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

RNAseq raw data is available from Sequence Read Archive through accession code PRJNA506073 Original agarose gel images and Northern Blot images are in Fig. S6

# Field-specific reporting

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

Life sciences Behavio

Behavioural & social sciences

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 sciences study design

All studies must disclose 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 experimental findings were reliably replicated
Randomization	Not relevant to this study
Blinding	Not relevant to this study

## Reporting for specific materials, systems and methods

#### Materials & experimental systems

n/a	Involved in the study
$\boxtimes$	Unique biological materials
$\ge$	Antibodies
$\boxtimes$	Eukaryotic cell lines
$\ge$	Palaeontology
$\ge$	Animals and other organism

Human research participants

#### Methods

n/a Involved in the study
ChIP-seq
Flow cytometry

MRI-based neuroimaging