

	Yes	N/A
TITLE		
No more than 15 words		
Does not contain punctuation	V	
AUTHORS		
Full postal address for all authors is provided	V	
One e-mail address for correspondence is provided	<b>V</b>	
Maximum of three equally contributing authors (further contributions can be outlined in the author contribution statement)	<b>/</b>	
ABSTRACT		
No more than 150 words	1/	
Does not contain references		
Results of the current study are written in present tense		
Starts with short description of background (2-3 sentences)	V	
Continues with presentation of the major results ('Here we show' or similar)	1	
Ends with a description of the paper's conclusion	1/	
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MAIN TEXT		
No more than 4000 words in total (Introduction, Results, Discussion)	V	
Section order is: Title, Abstract, Introduction, Results, Discussion, Methods, References, End Notes, Figure legends, Tables	/	
Main text is provided as a Word or Tex document	V.	
Abbreviations are defined at first use	V	
Genes and genotypes are italicized		
Mathematical equations: Variables and scalars are displayed in italics, vectors in boldface; Subscripts are displayed in normal font (unless they are variables)	<b>/</b>	
Introduction		
Less than 1000 words	V.	
Contains no subheadings	V	
Introduces the background and rationale for work		
The last paragraph contains a brief summary of both the results and the conclusions (written in present tense)	/	
Contains no reference to display items (unless overview figures are presented)		
Results		
Divided by subheadings less than 60 characters (incl spaces) that do not contain punctuation	<b>/</b>	
All data are shown either in the main text or the supplement  If personal communication from another laboratory is cited, written permission is provided	<u> </u>	<b>✓</b>
Reference to Supplementary items format is (Supplementary Fig. S1), (Supplementary Table S1), (Supplementary Note 1), (Supplementary Data 1), (Supplementary Movie 1)	/	



	Yes	N/A
Discussion		
Does not contains subheadings	1/	
Does not contain overlap with results section	1/	
METHODS		
No more than 1500 words	<b>V</b>	
Methods are contained within main paper wherever possible		
Divided by subheadings less than 60 characters (incl spaces) that do not contain punctuation	<b>/</b>	
Contain sufficient detail to repeat experiments (avoid 'as previously described')	V	
For experiments involving live vertebrates and higher invertebrates, a statement of compliance with ethical regulations is provided and the committee approving the experiments is identified		<b>/</b>
Species, strain, sex and age of animals used is reported. We recommend following the ARRIVE reporting guidelines when documenting animal studies		<b>/</b>
For experiments involving human subjects, a statement confirming that informed consent was obtained from all subjects must be provided and the committee approving the study protocol identified		<b>/</b>
New species name has been deposited in Zoobank and LSIDs are provided		
Taxonomic description for new species has been provided		V
Microarray data are in MIAME format and accession numbers are provided		<b>V</b>
Primer sequences are provided		
Small RNA sequences are provided		V.
Antibody sources and dilutions are listed		V.
Source of cell lines is identified		<b>V</b>
REFERENCES		
No more than 60	1	
Numbered in the order they appear in the text, tables, figures and boxes		
Formatted in Nature Communications style: 'Authors, Title, Journal, Volume,	TV.	
First-last page, (year)'		
References to web-only journals include: 'Authors, Title, Journal, url/doi and year of publication		/
References to websites include: 'Authors (if known), Title of page, url and year of publication		<b>/</b>
Contains only published work or work in press		
Does not contain footnotes	<b>/</b>	
END NOTES		
	+	
Author contributions statement is provided	1./	
Author contributions statement is provided  Conflict of interest statement is provided	1	
Conflict of interest statement is provided		
Accession codes of newly sequenced genes, coordinates of novel protein structures and/or datasets are included and repository defined		<b>/</b>
New chemical structures have been deposited in CCDC and accession codes are provided		/



	Yes	N/A
LEGENDS		
Contain a brief title		
No more than 350 words each	<b>V</b>	
Every panel is described		
Length of scale bars is defined	V.	
Definitions for new abbreviations / symbols / colours is provided		
The exact sample size (n) for each experimental group/condition is given		
A statement of how many times the experiment was replicated is provided		
The name of the statistical test used is provided		
The statistical test results is provided (e.g. P-values)		
Error bars are defined as s.d. or s.e.m.	/	
DISPLAY ITEMS		
No more than 8 total	V.	
Fit within a column/page (including legend)	V	
Numbered in the order they appear in the main text	V	
Figures		
Figures do not contain tables	1/	
Figure panels are arranged into a rectangular shape	1/	
Each panel is labelled	1/	
Panels are not subdivided	1/	
Figure width is either 1 column (85mm) or two columns (180mm)	1/	
Scale bars are included (but not labelled within the figure)		1/
Blots and gels contain molecular weight or size markers		V
Axes are labelled, including units	V.	
Stereo figures sufficient width apart (equivalent points separated by 5.5cm)	V	
If possible, avoid the use of red and green in figures to avoid confusion for colour-blind readers (magenta and turquoise are alternatives)	<b>/</b>	
Tables	1	
Include a title (no punctuation)		1/
Tables are editable (not embedded as a picture in the document)		1/
If table legend is required, it is displayed underneath the table		<u></u>
SUPPLEMENTARY INFORMATION		
Provided as a single Word file (except for Movies, Audio and Data)		1/
Supplementary files are less than 30 MB	1/	
Supplementary items are labelled and sections are displayed in the order: Supplementary Figure S1 / Supplementary Table S1 / Supplementary Note 1 / Supplementary Discussion / Supplementary Methods / Supplementary References	<b>/</b>	
Each Supplementary item is cited in the main text and in the correct order		
Figure legends are displayed underneath each figure; ideally, each display item and its corresponding legend fit on one page		<b>/</b>



	Yes	N/A
SUPPLEMENTARY INFORMATION (continued)		
Format of the legends is the same as in the main manuscript (please see section above)	/	
Movie legends are provided in the cover letter		<b>V</b>
Supplementary Reference numbering continues from main text, and reference list contains no duplication with the main text		<b>/</b>
Where portions of blots and gels have been presented in the main paper, the full blot or gel are included in the Supplementary Information		<b>/</b>
Supplementary Information does not contain essential display items (these should be displayed in the main text)	<b>/</b>	
Supplementary Information does not contain Results		
NMR standard table for structural refinement statistics has been used (http://www.nature.com/ncb/pdf/nsmb_tables_nmr_f.pdf)		<b>/</b>
X-ray standard table for structural refinement statistics has been used (please see <a href="http://www.nature.com/ncb/pdf/nsmb">http://www.nature.com/ncb/pdf/nsmb</a> tables xray f.pdf)		<b>/</b>
Stereo image of a portion of the electron density map (X-ray structures) or of the superimposed lowest energy structures (>10; NMR papers) is provided		<b>/</b>
Chemical structures are drawn using a Nature Chemistry Chemdraw template (please see <a href="http://www.nature.com/nchem/authors/submit/nchemstyleguide.pdf">http://www.nature.com/nchem/authors/submit/nchemstyleguide.pdf</a> )		<b>/</b>
Full chemical characterization (including <sup>1</sup> H NMR, <sup>12</sup> C NMR and mass spectrometry data) is provided for novel small molecules		<b>/</b>