MANUSCRIPT CHECKLIST

	Yes	N/A
TITLE		
No more than 15 words		
Does not contain punctuation		
AUTHORS		
Full postal address for all authors is provided		
One e-mail address for correspondence is provided		
Maximum of three equally contributing authors (further contributions can be outlined in the author contribution statement)		
ABSTRACT		
No more than 150 words		
Does not contain references		
Results of the current study are written in present tense		
Starts with short description of background (2-3 sentences)		
Continues with presentation of the major results ('Here we show' or similar)		
Ends with a description of the paper's conclusion		
MAIN TEXT		
No more than 5000 words in total (Introduction, Results, Discussion)		
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		
Abbreviations are defined at first use		
Genes and genotypes are italicized		
Mathematics: Scalar variables and constants should be italic, vectors should be bold without italics, subscripts and superscripts are displayed in non-italic font unless they are variables. Unit dimensions should be expressed using negative integers (e.g. kg m^{-1} s^{-2} not kg/ms^2) or the word 'per'		
Introduction		
Less than 1000 words		
Contains no subheadings		
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		
All data are shown either in the main text or the Supplementary Information		
If personal communication from another laboratory is cited, written permission is provided		
Reference to Supplementary items format is (Supplementary Fig. 1), (Supplementary Table 1), (Supplementary Note 1), (Supplementary Data 1), (Supplementary Movie 1)		

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	Yes	N/A
Discussion		
Does not contains subheadings		
Does not contain overlap with Results section		
METHODS		
No more than 3000 words		
Methods are contained within main paper wherever possible		
Divided by subheadings less than 60 characters (incl spaces) that do not contain punctuation		
Contain sufficient detail to repeat experiments (avoid 'as previously described')		
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		
Species, strain, sex and age of animals used is reported. We recommend following the ARRIVE reporting guidelines when documenting animal studies		
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		
A statement describing how the sample size was chosen is provided		
A statement outlining sample exclusion criteria is provided		
Randomization and/or blinding strategy is described		
New species name has been deposited in Zoobank and LSIDs are provided		
Taxonomic description for new species has been provided		
Microarray data are in MIAME format and accession numbers are provided		
Primer sequences are provided		
Small RNA sequences are provided		
Antibody sources and dilutions are listed		
Source of cell lines is identified		
REFERENCES		
No more than 70		
Numbered in the order they appear in the text, tables, figures and boxes		
Formatted in Nature Communications style: 'Authors, Title, Journal, Volume, First-last page or article number, (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'		
References to preprint servers should be formatted as 'Authors. Preprint title. Preprint at http://arxiv.org/abs/ YYMM.NNNN (Year)'		
Contains only published work or work in press (including doi)		
Does not contain footnotes		

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	Yes	N/A
END NOTES		
Acknowledgements are brief		
Author contributions statement is provided		
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		
New chemical structures have been deposited in CCDC and accession codes are provided		
LEGENDS		
Contain a brief title		
No more than 350 words each		
Every panel is described		
Length of scale bars is defined		
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.		
Fit curves to data points are described		
DISPLAY ITEMS		
No more than 10 total		
Fit within a column/page (including legend)		
Numbered in the order they appear in the main text		
Scalar variables and constants are in italics, vectors are in bold (incl. subscripts and superscripts). Unit dimensions are expressed using negative integers (e.g. kg m^{-1} s^{-2} not kg/ms^2) or the word 'per'.		
Figures		
Figures do not contain tables		
Figure panels are arranged into a rectangular shape		
Each panel is labelled with a single letter		
Panels are not subdivided		
Figure width is either 1 column (85mm) or two columns (180mm)		
Scale bars are included (but not labelled within the figure)		
Blots and gels contain molecular weight or size markers		
Axes are labelled, including units		
Stereo figures sufficient width apart (equivalent points separated by 5.5cm)		
If possible, avoid the use of red and green in figures to avoid confusion for colour-blind readers (magenta and turquoise are alternatives)		
Tables		
Include a title (no punctuation)		
Tables are editable (not embedded as a picture in the document)		
If table legend is required, it is displayed underneath the table		

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	Yes	N/A
SUPPLEMENTARY INFORMATION		
Provided as a single Word file (except for Movies, Audio and Data)		
Supplementary files are less than 30 MB		
Supplementary items are labelled and sections are displayed in the order: Supplementary Figure 1 / Supplementary Table 1 / Supplementary Note 1 / Supplementary Discussion / Supplementary Methods / Supplementary References		
Supplementary Equations are numbered 1, 2, …		
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		
Format of the legends is the same as in the main manuscript (please see section above)		
Movie legends are provided in the cover letter		
Supplementary References are numbered sequentially from 1 and are self-contained (they do not refer to the list of References in the main paper; any such papers is duplicated in the list of Supplementary References)		
Where portions of blots and gels have been presented in the main paper, the full blot or gel are included in the Supplementary Information		
Supplementary Information does not contain essential display items (these should be displayed in the main text)		
Supplementary Information does not contain Results		
Supplementary Data files contain titles		
NMR standard table for structural refinement statistics has been used (http://www.nature.com/ncb/pdf/nsmb_tables_nmr_f.pdf)		
X-ray standard table for structural refinement statistics has been used (please see http://www.nature.com/ncb/pdf/nsmb_tables_xray_f.pdf)		
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		
Chemical structures are drawn using a Nature Chemistry Chemdraw template (please see http://www.nature.com/nchem/authors/submit/nchemstyleguide.pdf)		
Full chemical characterization (including ^{1}H NMR, ^{13}C NMR and mass spectrometry data) is provided for novel small molecules		