

MANUSCRIPT CHECKLIST

	Vac	N/A
TITLE	Yes	IN/A
No more than 15 words		
Does not contain punctuation		
Does not contain punctuation		
AUTHORS		
Full postal address for all authors is provided		
Ideally one e-mail address for correspondence is provided, but no more than 3		
Maximum of 6 equally contributing authors (further contributions can be outlined		
in the author contribution statement)		
Maximum of 6 joint supervisors (further contributions can be outlined in the		
author contribution statement)		
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		
Linds with a description of the paper's conclusion		
MAIN TEXT		
No more than 5,000 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 (with accompanying bib file if		
not integrated into the 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		
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 1,000 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 Discussion		
Does not contain subheadings	<u> </u>	
Does not contain overlap with results section	+	
METHODS	+	
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')	+	
Statement about availability of computer code, if important for main	1	
conclusions, is provided		
The paper conforms to our requirements on mandatory data deposition (see		
https://www.nature.com/commsmat/journal-policies/editorial-publishing-		
policies#availability-materials)		
A "Data availability" section is provided at the end of the Methods (or end of		
main text, if no Methods) containing information on all mandatory and voluntary		
provision of research data. For further information refer to		
http://www.springernature.com/gp/authors/research-data-policy/data-		
availability-statements		
REFERENCES		
As a guideline, Articles allow up to 70 references		
Numbered in the order they appear in the text, tables, figures and boxes		
Formatted in Communications Materials style: 'Authors, Title, Journal,		
Volume, 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	<u> </u>	
References to preprint servers should be formatted as 'Authors. Preprint title.		
For example: Preprint at http://arxiv.org/abs/ YYMM.NNNN (Year)' Research datasets may be cited if they have been assigned digital object	+	
identifiers (DOIs) and should be formatted as 'Authors. Title.		
Publisher/repository, doi (year)'. Example: Smith, A. & Doe, J. Title. Figshare		
http://dx.doi.org/ (2016)		
Contains only published work or work in press (including doi number)		
Does not contain footnotes		
END NOTES		
Acknowledgements are brief		
Author contributions statement is provided		
Competing financial interest statement is provided		
LEGENDS	<u> </u>	
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	+	
Error bars are defined as s.d. or s.e.m.	+	
Error bard are defined as s.a. of s.c.III.	1	



MANUSCRIPT CHECKLIST

MANUSCRIPT CHECKLIST	Yes	N/A
DISPLAY ITEMS	103	11/7
No more than 10 total		
Fit within a column/page (including legend)		
Numbered in the order they appear in the main text		
Numbered in the order they appear in the main text		
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		
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)		
Avoid the use of red and green in figures to avoid confusion for colour-blind		
readers (magenta and turquoise are alternatives)		
Chemical structures are drawn using a <i>Nature Chemistry</i> Chemdraw	 	
template (please see		
http://www.nature.com/nchem/authors/submit/nchemstyleguide.pdf)		
mtp.//www.matare.som/monem/additions/sabmit/monemotylegalac.pdf/		
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		
NMR standard table for structural refinement statistics has been used		
(https://www.nature.com/authors/policies/tables-nmr.doc)		
X-ray standard table for structural refinement statistics has been used		
(https://www.nature.com/authors/policies/tables-xray.doc)		
Cryo-EM standard table for refinement and validation statistics has been		
used (https://www.nature.com/authors/policies/tables-cryo-em.doc)		
SUPPLEMENTARY INFORMATION		
Provided as a single PDF file (except for Movies, Audio and Data)		
Supplementary files are less than 30 MB		
Supplementary items are labelled and contain only these elements:		
Supplementary Figure 1 etc. / Supplementary Table 1 / Supplementary Note 1 /		
Supplementary Discussion / Supplementary Methods / Supplementary		
References. Supplementary References appear at the end of the file.		
Each Supplementary item is cited in the main text in numerical order		
Figure legends are displayed underneath each figure; ideally, each displayitem		
and its corresponding legend fit on one page		
Format of the legends is the same as in the main manuscript and any error bars		
are defined (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		