

MANUSCRIPT CHECKLIST

	Yes	N/A
TITLE		
No more than 15 words	Χ	
Does not contain punctuation	Х	
AUTHORS	Χ	
Full postal address for all authors is provided	Х	
Ideally one e-mail address for correspondence is provided, but no more than 3	Х	
Maximum of 6 equally contributing authors (further contributions can be outlined in the author contribution statement)	Х	
Maximum of 6 joint supervisors (further contributions can be outlined in the author contribution statement)		Х
ABSTRACT		
No more than 150 words	X	
Does not contain references		
Results of the current study are written in present tense	Χ	
Starts with short description of background (2-3 sentences)	X	
Continues with presentation of the major results ('Here we show' or similar)	Х	
Ends with a description of the paper's conclusion	Χ	
MAIN TEXT		
No more than 5,000 words in total (Introduction, Results, Discussion)	Х	
Section order is: Title, Abstract, Introduction, Results, Discussion, Methods,	Х	
References, End Notes, Figure legends, Tables		
Main text is provided as a Word or Tex document	X	
Abbreviations are defined at first use	Х	
Genes and genotypes are italicized		Х
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'	Х	
Introduction	V	
Less than 1,000 words	X	
Contains no subheadings	X	
Introduces the background and rationale for work	Х	
The last paragraph contains a brief summary of both the results and the	Χ	
conclusions (written in present tense) Contains no reference to display items (unless overview figures are presented)	Х	
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Results		
Divided by subheadings less than 60 characters (incl spaces) that do not	Х	
contain punctuation	_ ^_	
All data are shown either in the main text or the Supplementary Information	Х	
If personal communication from another laboratory is cited, written permission is provided		Х
Reference to Supplementary items format is (Supplementary Fig. 1), (Supplementary Table 1), (Supplementary Note 1), (Supplementary Data 1), (Supplementary Movie 1)	х	



MANUSCRIPT CHECKLIST

	Yes	N/A
Discussion		
Does not contains subheadings	X	
Does not contain overlap with results section	X	
METHODS		
Methods are contained within main paper wherever possible	Х	
Divided by subheadings less than 60 characters (incl spaces) that do not		
contain punctuation	Х	
Contain sufficient detail to repeat experiments (avoid 'as previously described')	Х	
Statement about availability of computer code, if important for main		
conclusions, is provided	X	
The paper conforms to our requirements on mandatory data deposition (see	· · ·	
http://www.nature.com/authors/policies/availability.html)	Х	
For all papers section "Data availability" 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	X	
http://www.nature.com/authors/policies/data/data-availability-statements-data-		
<u>citations.pdf</u>		
REFERENCES		
As a guideline, Articles allow up to 70 references	X	
Numbered in the order they appear in the text, tables, figures and boxes	Х	
Formatted in Nature Communications style: 'Authors, Title, Journal, Volume,	Х	
First-last page, (year)' References to web-only journals include: 'Authors, Title, Journal, url/doi and		
year of publication		Χ
References to websites include: 'Authors (if known), Title of page, url and year		
of publication		Χ
References to preprint servers should be formatted as 'Authors. Preprint title.		
For example: Preprint at http://arxiv.org/abs/ YYMM.NNNN (Year)'		Х
Research datasets may be cited if they have been assigned digital object		
identifiers (DOIs) and should be formatted as 'Authors. Title.	X	
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)	X	
Does not contain footnotes	Х	
END NOTES		
Acknowledgements are brief	X	
Author contributions statement is provided	X	
Conflict of interest statement is provided	Х	
LECENDO		
LEGENDS Contain a brief title	.,	
Contain a brief title No more than 350 words each	X	
Every panel is described	X	
Length of scale bars is defined	X	
Definitions for new abbreviations / symbols / colours is provided	X	
Error bars are defined as s.d. or s.e.m.	X	
Error baro are defined do o.d. or o.d.iii.		



MANUSCRIPT CHECKLIST

DISPLAY ITEMS No more than 10 total X	,	X
Fit within a column/page (including legend) Numbered in the order they appear in the main text Figures Figures 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)	,	
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Avoid the use of red and green in figures to avoid confusion for colour-blind readers (magenta and turquoise are alternatives)		^
readers (magenta and turquoise are alternatives)		
Tables		
LAURS		
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		X
(http://www.nature.com/ncb/pdf/nsmb_tables_nmr_f.pdf)		Χ
X-ray standard table for structural refinement statistics has been used (please		
see http://www.nature.com/ncb/pdf/nsmb_tables_xray_f.pdf)		Χ
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	,	
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		Х
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		Х
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	$\overline{}$	
Supplementary Data files contain titles		
Chemical structures are drawn using a Nature Chemistry Chemdraw template	_	
(please see http://www.nature.com/nchem/authors/submit/nchemstyleguide.pdf)		Х