**eLife’s transparent reporting form**

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**Sample-size estimation**

- You should state whether an appropriate sample size was computed when the study was being designed
- You should state the statistical method of sample size computation and any required assumptions
- If no explicit power analysis was used, you should describe how you decided what sample (replicate) size (number) to use

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Please see details below in “Replicates” section.

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- You should report how often each experiment was performed
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- The data obtained should be provided and sufficient information should be provided to indicate the number of independent biological and/or technical replicates
- If you encountered any outliers, you should describe how these were handled
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Information regarding experimental replicates can be found at the end of each FIGURE LEGEND, or, when additional explanation is required, in MATERIALS AND METHODS. As described in the paper: for biochemical experiments, we performed at least three biological replicates, defined as experiments completed with separate reagent preparations.

**Statistical reporting**

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• Statistical analysis methods should be described and justified
• Raw data should be presented in figures whenever informative to do so (typically when N per group is less than 10)
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• Report exact p-values wherever possible alongside the summary statistics and 95% confidence intervals. These should be reported for all key questions and not only when the p-value is less than 0.05.

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The MATERIALS AND METHODS section reports the types of statistical analyses used to generate the reported data and establish significance/non-significance. Whenever possible, the figures show the raw data of a single biological replicate with a corresponding panel of the quantitation and statistical analysis of the full biological replicate set.

(For large datasets, or papers with a very large number of statistical tests, you may upload a single table file with tests, Ns, etc., with reference to sections in the manuscript.)

Group allocation
• Indicate how samples were allocated into experimental groups (in the case of clinical studies, please specify allocation to treatment method); if randomization was used, please also state if restricted randomization was applied
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The data from each experimental group were treated, processed, and quantitated identically. This is clearly stated throughout the manuscript in relevant sections (primarily in RESULTS). Experimental groups were not masked prior to data collection and analysis.

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• We encourage you to upload relevant additional data files, such as numerical data that are represented as a graph in a figure, or as a summary table
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• Include model definition files including the full list of parameters used
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