***eLife’s* transparent reporting form**

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* You should state whether an appropriate sample size was computed when the study was being designed
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* If no explicit power analysis was used, you should describe how you decided what sample (replicate) size (number) to use

Please outline where this information can be found within the submission (e.g., sections or figure legends), or explain why this information doesn’t apply to your submission:

There is no experiment in this manuscript that required sample size estimation.

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* You should report how often each experiment was performed
* You should include a definition of biological versus technical replication
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All experiments in this paper were performed as multiple replicates (at least three) along biological replicates wherever applicable. The details of these can be found in the material and methods section. The same information is briefly mentioned in the legends of the figure.

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* Statistical analysis methods should be described and justified
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The average of the multiple replicates of experiments were computed and the differences between them were assessed using unpaired two-tailed student t-test and p-value analysis. The specific detail for every experiment is detailed in the materials and methods section. They are also briefly mentioned in the figure legends.

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* 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 study is a comparative analysis of a differences between a specific mutant and a wild type of model organisms and hence group allocation is not applicable.

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The source data required for analyzing all figures and figure supplements in the manuscript have been uploaded along with the manuscript.