***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

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No power analysis was used. Sample sizes were based on prior experimentation in the lab, and are similar to those in related publications. Sample sizes were kept constant throughout the experiments reported in the manuscript.

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* You should report how often each experiment was performed
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Sample sizes are represented as dots in each figure panel, and are reported in Supplementary File 3. All replicates were biological. No techniques were used to identify outliers, and no outliers were removed.

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* Statistical analysis methods should be described and justified
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* For each experiment, you should identify the statistical tests used, exact values of N, definitions of center, methods of multiple test correction, and dispersion and precision measures (e.g., mean, median, SD, SEM, confidence intervals; and, for the major substantive results, a measure of effect size (e.g., Pearson's r, Cohen's d)
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(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.)

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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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Experimental genotypes are grouped with one or more control genotypes. The experimenter was blinded to genotype for behavioral experiments and for quantification.

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All data is included in the manuscript.