**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
- 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

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:

| We did not perform an a priori sample size calculation. However, all our experiments use technical replicates (not biological replicates), and the number of such replicates is based on previous published observations to reached statistical differences between datasets. To account for variability in sample preparation, animals, ambience conditions, etc, datasets are produced from at least 5 cells from 3 different mice. |

**Replicates**

- You should report how often each experiment was performed
- You should include a definition of biological versus technical replication
- 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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- High-throughput sequence data should be uploaded before submission, with a private link for reviewers provided (these are available from both GEO and ArrayExpress)

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We did not perform an a priori sample size calculation. However, all our experiments use technical replicates (not biological replicates), and the number of such replicates is based on previous published observations to reached statistical differences between datasets. To account for variability in sample preparation, animals, ambience conditions, etc, datasets are produced from at least 5 cells from 3 different mice.
Statistical reporting

• 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)
• 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)
• 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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Information regarding statistical reporting is provided in the Results section, Methods section, and Figure Legends. Data were expressed as mean ± SEM. The name of the statistical test as well as n along with the number of mice or human patients from which tissue was obtained were described for every figure when applicable.

(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
• Indicate if masking was used during group allocation, data collection and/or data analysis

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:

Not applicable in this study. All tissue came from control mice (wild-type) or human patients undergoing gastric sleeve surgery that were non diabetic.

Additional data files ("source data")

• 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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Source data files were provided for every graph found in the manuscript. These files are linked and labeled accordingly to their respective figures.