



Figure S1. Quantifications of NMJ bouton size.

Quantifications of bouton size of NMJ4 in different genotypes. $n \geq 12$ larvae; ns, no significance; * $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$ by one-way ANOVA with Tukey *post hoc* tests; error bars: s.e.m.

Table S1: Lipidomic data of membrane lipids.

Ratio value: ratios of lipid levels between the indicated genotypes to assess changes in lipid abundance; related to Fig. 5B,D,E. **Molecular fraction:** molar percentage (mol%) for each lipid class or species normalized to the sum of lipids measured; 5 biological repeats for each genotype; related to Fig. 3D and Fig. 5. **P-value:** comparison of each lipid class or species of indicated genotype to that of wild-type by ANOVA non-parametric Kruskal-Wallis sum-of-ranks; $P < 0.05$ is highlighted by pink; related to Fig. 3D and Fig. 5.

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