

Supplemental Figure 2. A metabolomic analysis of *LKRSDH* **mutants independent of that illustrate in Figure 4.** w^{1118} ; +/*LKRSDH*^{MB} and w^{1118} ; *LKRSDH*^{1/MB01942} adult males were analyzed using a targeted GC-MS approach. Samples were collected for this analysis were independent of those illustrated in Figure 4. GC-MS analysis was conducted three months after the analysis represented in Figure 4. (A) A comparison of the metabolomic data from control and mutant samples using principle component (PC) analysis. (B) Differences in metabolite abundance between control and mutant samples are represented as a volcano plot. Dashed vertical line represents a fold change (FC) of > 1.5. Dashed horizontal line represents p < 0.01. Metabolites noted with a red box were also significantly changed in the metabolomic analysis represented in Figure 4.