



Figure 4 – Figure Supplement 1. *IR56d* mediates taste perception to medium-chain hexanoic acid (6C) in male flies. Although sucrose taste perception is similar in control and *IR56d*^{GAL4} mutant flies, *IR56d*^{GAL4} flies have reduced PER to medium-chain hexanoic acid (6C) relative to control, *IR56d*^{GAL4} heterozygotes, and *IR56d*^{GAL4} rescue flies. REML: $F_{3,150} = 5.394$, $P = 0.0015$, with Sidak's Test for multiple comparisons; N=37-40. Error bars indicate \pm SEM. **** $P < 0.0001$.