



**Figure S3. Expressing *mad*<sup>1</sup> alone or *hiw*Δ*Ring* and *mad*<sup>1</sup> did not cause thermal insensitivity .**

In comparison to controls (*ppk*-GAL4 x *w*<sup>1118</sup>, n = 115), animals expressing *mad*<sup>1</sup> alone in nociceptors (*ppk*-GAL4 x *UAS-mad*<sup>1</sup>, n = 63, p > 0.99 versus control) and ones expressing *hiw*Δ*Ring* and *mad* in nociceptors (*ppk*-GAL4 *UAS-hiw*Δ*Ring* x *UAS-mad*<sup>1</sup>, n = 61, p > 0.14 versus control) did not show significant thermal insensitivity phenotype. All error bars represent standard error.