



Figure S4 KCl evoked depolarizations are similar in different AMPK genetic backgrounds. GCaMP images were collected as described in the methods section. To test the possibility that AMPK may be regulating ion channel abundance in AKH cells and globally impact AKH cell excitability 3M KCl was added to confirm cell viability. To test the hypothesis that AMPK generally impacted AKH cell excitability, we measured fluorescence prior to addition of 3M KCl and again within ten seconds of application. Fluorescence levels were normalized to baseline levels and we observed no significant differences in the responses to KCl between wild-type and AMPK γ -KD. (Two tailed T-test, $P = 0.78$).