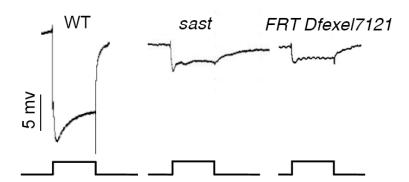
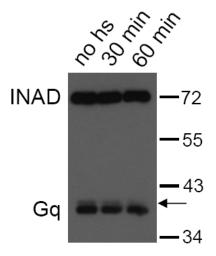


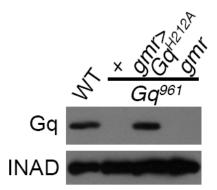
Supplemental figure 1. Western blots of DGq protein levels in wild-type and the *sast* mutant. Each lane was loaded with the eighth part of head. Arrow points out the nonspecific bands, which are detectable with the prolonged exposure time. WT = wild type.



Supplemental figure 2. Representative ERG traces of wild type, *sast* mutant, and Df(2R)Exel7121 mosaic eye flies. For all ERG traces, event markers represent 5-s orange light pulses, and scale bars are 5 mV. WT = wild type.



Supplemental figure 3. Gq protein levels in different treatments. Wild-type adults reared at 21 °C were exposed to 30 minutes of heat-shock at 37 °C (30 min) or 1 hour of heat-shock at 37 °C (60 min) or no heat-shock (no hs). All flies were collected and analyzed at 24-hour post-heat-shock. INAD was used as the loading control. The up nonspecific bands are labeled with arrow.



Supplemental figure 4. The protein level of DGq in cn, Gq^{961} , bw; $gmr > Gq^{H212A}$ flies and control flies.