



Representative ensemble whole cell currents exhibit similar amplitudes and kinetics, regardless of whether cells had untagged  $\alpha_{1C}$  channels (a), tagged 4N-GFP- $\alpha_{1C}$  channels without CaGF labeling (b), or tagged 4N-GFP- $\alpha_{1C}$  channels labeled by CaGF (c). Cells were stepped from  $-80$  mV to  $+20$  mV. CaGF labeling had no statistically significant effect on mean peak current (d), the time constant of current decay (e), or the current rise time (f) of 4N-GFP- $\alpha_{1C}$  currents. The treatment conditions are labeled under each bar: without CaGF labeling and without FPL 64176 (n=17); With CaGF labeling and without FPL 64176 (n=15); Without CaGF labeling and with FPL 64176 (n=9); With CaGF labeling and with FPL 64176 (n=9). Data given as mean  $\pm$  SE.

## Supplementary material Figure 3