



Figure 7 – Figure Supplement 1.

Effect of optogenetic stimulation of NPVF neurons on GCaMP6s fluorescence in the tectum of individual animals.

Neural activity recorded for individual *Tg(elavl3:H2B-GCaMP6s)* (A) and *Tg(elavl3:H2B-GCaMP6s); Tg(npvf:ReaChR-mCitrine)* (B) animals that are quantified in (Figure 7G). Grey lines represent individual animals. Blue and red lines represent the averaged normalized value of all animals tested. Signal is calculated as $\Delta F = F - F_0$ with baseline F_0 = averaged signal over the first 5 trials. The normalization is done with F_N = peak of signal after red light is turned on (after trial 5), for the same animal. Averaging is carried out after normalization.