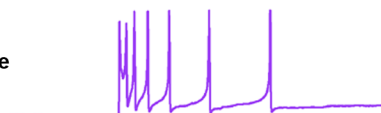


Supplemental Figure 1

Diagram



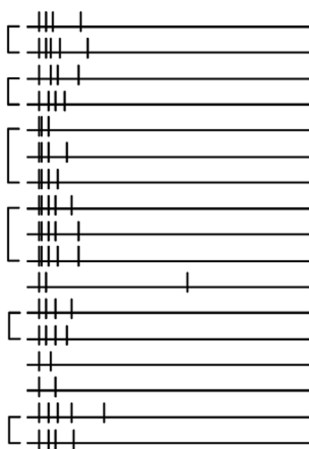
Original AP trace



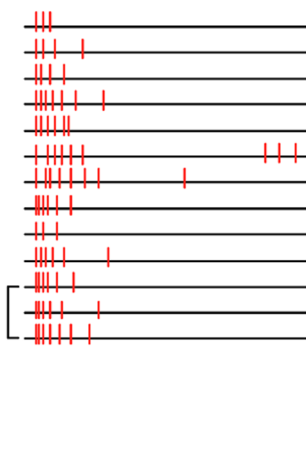
Blue light (10ms)



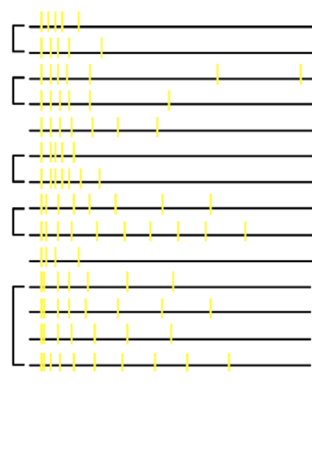
Zxls6



Zxls6;slo-1

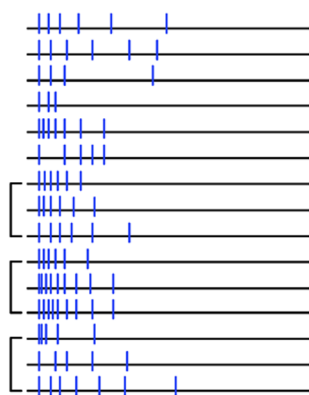


Zxls6;dys-1

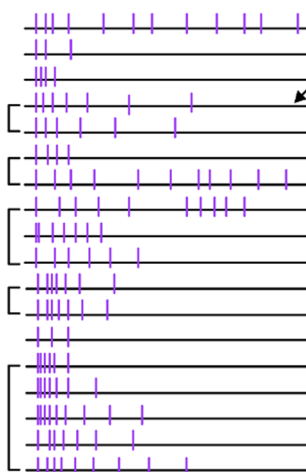


0.5 s

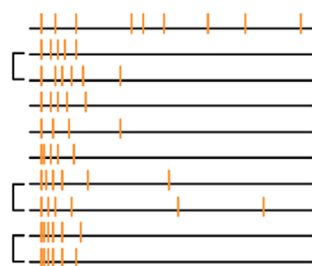
Zxls6;dys-1



Zxls6;dyc-1



Zxls6;stn-1



Supplemental Figure 1

S1. All AP traces from current-clamped muscle cells of SLO-1(lf) and DAPC(lf) mutants following photostimulation. (A) Representative trace of photoevoked APs in current-clamped muscle of DAPC mutant *dyc-1(cx32)*, with corresponding temporal representation of APs as a function of time (~2.5 sec total) following blue light stimulation of cholinergic neurons of the ventral nerve cord. (B) Temporal representation of all individual AP recordings from muscle cells at the NMJ of SLO-1(lf) and DAPC(lf) mutants over a period of ~2.5 sec following photostimulation. The arrow denotes the trace depicted in S1A.