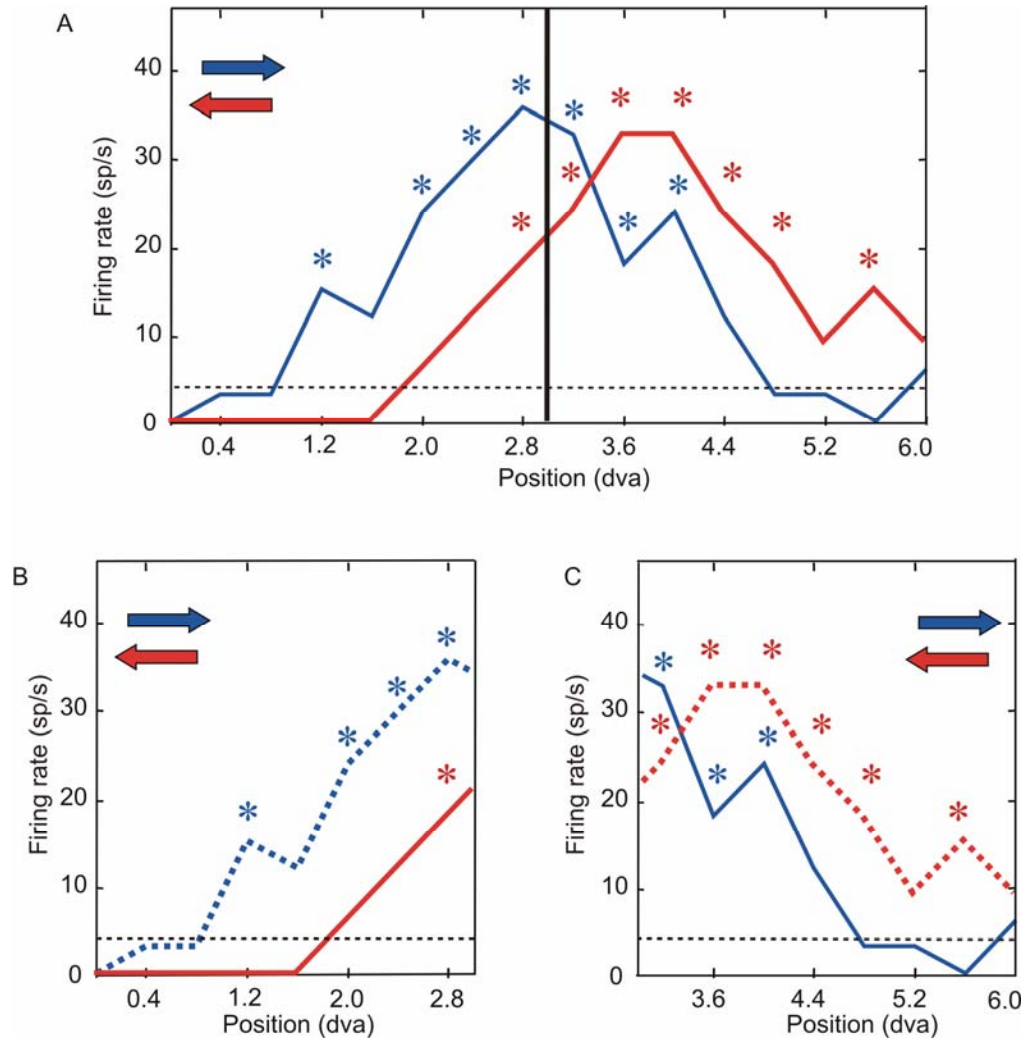


Supplemental Figure 1



Validating the experiment 2 shift index. A. The same RF that was illustrated in Figure 3 with blue indicating rightward and red indicating leftward motion trajectories. Locations where the flash elicited a response significantly above baseline are indicated by asterisks. The solid black line indicates where we split the data set in half to calculate the partial RF shift index. B. Left half of the response profile. The shift index was calculated by taking the number of significant positions for the inward trajectory (dashed line) and subtracting the number of significant positions for the outward trajectory (solid line), multiplying the result by the spacing between adjacent bars (0.4 dva), and then halving to represent the shift in terms of a shift in dva for a single trajectory. Shift Index = 0.6 dva. C. Right half of response profile. Shift Index = 0.6 dva