



Supplemental Figure 1. Novel mutation in *rhodopsin* (*rho*), *rho*^{*djh503* +/-}. **(A)** Clustal Omega Alignment of the C-terminus of *Danio rerio* (*Dr*) Rhodopsin with the *Xenopus laevis* (*Xl*), *Mus musculus* (*Mm*) and *Homo sapien* (*Hs*) proteins. The terminal 44 amino acids necessary for outer segment localization are indicated by the grey box. Palmitoylated residues are boxed in red. The site of the frame shift mutation in *rho*^{*djh503* +/-} is marked by the arrow. **(B)** Agarose gel electrophoresis confirming the *rho* genotype for the larvae visualized in confocal studies. Heterozygous mutant amplicons also form a heteroduplex band that runs slower than the 170bp wildtype band. **(C)** Sanger sequencing of a PCR amplicon of *rho*^{*djh503* +/-} gDNA. The site of the frame shift mutation is marked by the arrow. Altered sequence is boxed in red above the chromatogram.