

Laffafian and Tepass, Figure S4

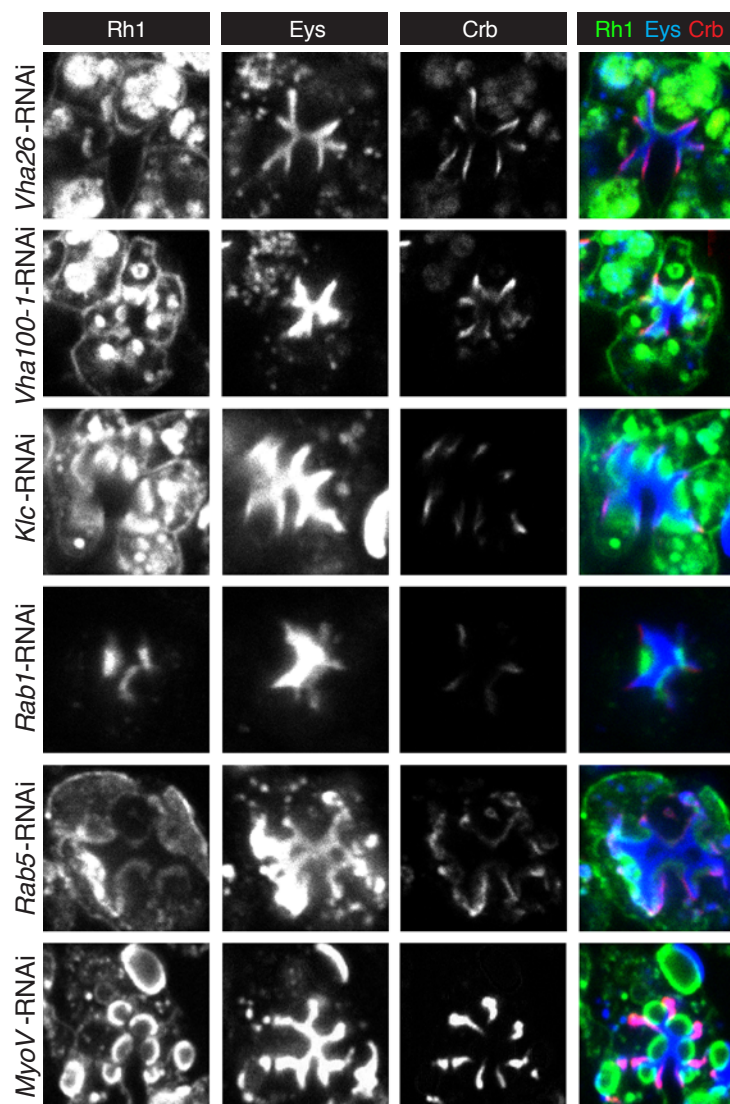
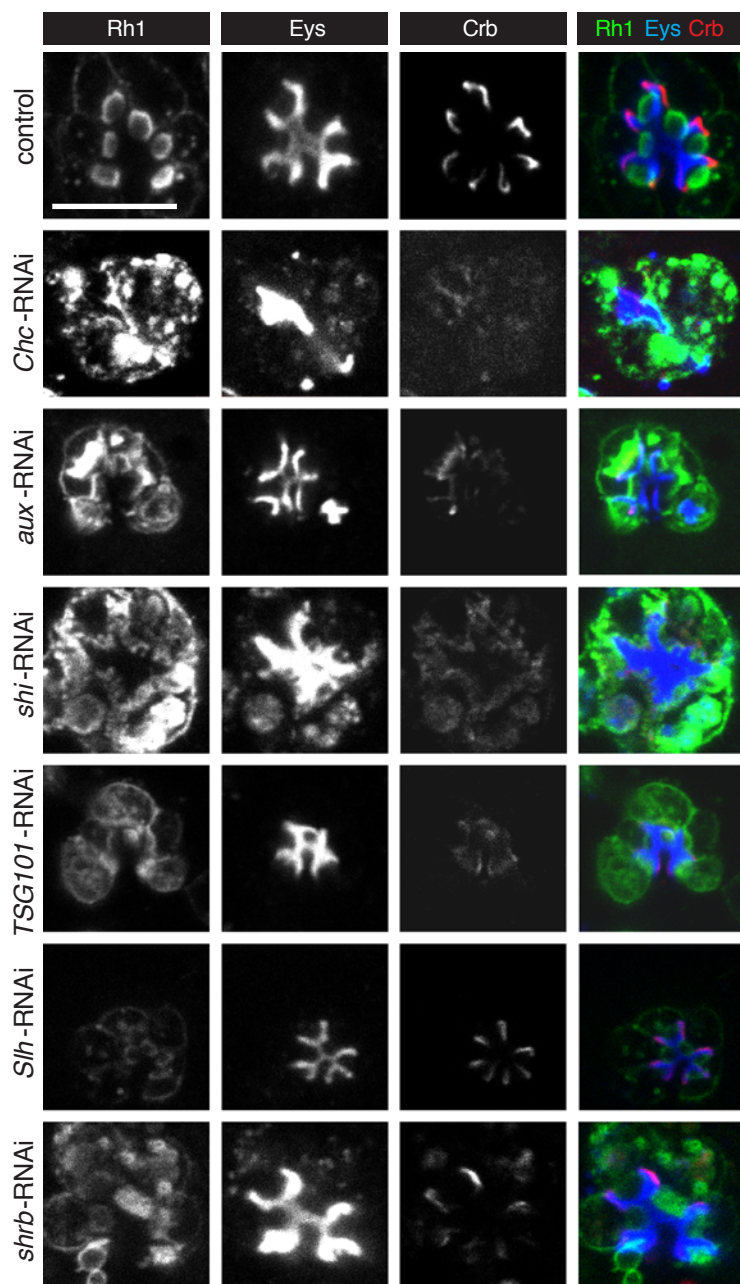


Figure S4. Genes affecting Rh1, Crb and Eys trafficking.

Flies with UAS-RNAi constructs were crossed to UAS-dicer-2; pGMR-Gal4 flies. The retinas of adult progeny were stained for Rh1, Eys, and Crb. UAS-dicer-2/+; pGMR-Gal4/+ was used as a control. **Chc** knockdown (RNAi line BDSC 27530) causes PRC breakdown. Cytoplasmic Rh1 and Eys are observed. A strong reduction in Crb was also apparent. **Aux** knockdown (RNAi line BDSC 35310) led to cytoplasmic Rh1 and Eys, in addition to a decrease in Crb levels. The IRS appears smaller. **Shi** knockdown (RNAi line BDSC 36921) led to cytoplasmic Rh1, Eys, and Crb. **Tsg101** knockdown (RNAi line BDSC 35710) led to smaller rhabdomeres, IRS, and stalk. Cytoplasmic Rh1 was observed. **Slh** knockdown (RNAi line BDSC 34335) led to a strong reduction in Rh1, Eys, and Crb, as well as smaller rhabdomeres, IRS and stalk membrane. **Shrb** knockdown (RNAi line BDSC 38305) led to cytoplasmic Rh1, Eys, and Crb. **Vha26** knockdown (RNAi line BDSC 38996) led to cytoplasmic Rh1, Eys, and Crb. IRS appeared smaller.

Vha100 knockdown (RNAi line BDSC 26290) led to cytoplasmic Rh1, Eys, and Crb. The IRS appeared smaller. **Klc** knockdown (RNAi line BDSC 36795) led to cytoplasmic Rh1 and Eys in addition to a reduction in Crb. **Rab1** knockdown led to the reduction of Rh1, Eys, and Crb. **Rab5** knockdown (RNAi line BDSC 27299) caused an expansion of the IRS, and the length of the stalk. Rhabdomeres are missing. **MyosinV** knockdown (RNAi line BDSC 55740) led to the cytoplasmic accumulation of Rh1 and Eys. Scale bar, 5 μ m.