

Supplemental Fig. 1. Li et al

Supplemental Fig. 1. Conditional knockout of Rac1 in RGCs. A, B, Identification of genotypes of Rac1-cKO (A) and Chat-cre^{+/-} (B) mice. C, Representative immunoblots showing Rac1 protein levels in retinal extracts obtained from control, Chat-cre^{+/-}, and Rac1-cKO mice, respectively. D, Bar charts summarizing the average densitometric quantification of immunoreactive bands of Rac1 in retinas obtained from different mice as shown in C. All the data are normalized to control. n = 6 for all groups, **P < 0.01 vs. control. E, Double-immunofluorescence labeling showing the expression of Cre recombinase (e3) and Brn-3a (e2) in a retinal slice obtained from Chat-cre^{+/-} mouse. e1: DAPI image. e4: merged image of e1, e2 and e3. Note that the Cre recombinase was co-localized with Brn-3a (arrow heads). F, Double-immunofluorescence labeling showing the expression of Rac1 (f3, f7) in Brn-3a-positive RGCs (f2, f6) in control and Rac1-cKO retinal slices. f1 and f5: DAPI

labeling. f4 and f8: merged images. Note that Rac1 expression in RGCs was reduced in Rac1-cKO mouse (arrow heads). Scale bar, 20 μ m for all images. GCL, ganglion cell layer; IPL, inner plexiform layer. **G**, Photomicrographs of HE staining showing the morphological changes of both the nasal and the temporal retinas obtained from control, Rac1-cKO and Chat-cre^{+/-} mice. Scale bar, 20 μ m.