**Supplementary Figure S1.** The retrolental vasculature tissue does not express markers specific for retinal neurons and retinal pigment epithelium. Immunofluorescence staining was performed on cryostat sections at the indicated ages. (A, B) Tuj1 immunofluorescence staining of Fzd5^{LoxP/+}; Six3-Cre (n=2) and Fzd5^{LoxP/-}; Six3-Cre (n=3) mice eyes. Dashed line in (B) indicates the posterior surface of the lens. (C, D) Otx2 immunofluorescence staining of Fzd5^{LoxP/+}; Six3-Cre (n=2) and Fzd5^{LoxP/-}; Six3-Cre (n=2) mice eyes. (E, F) Brn-3b Immunofluorescence staining of Fzd5^{LoxP/+}; Six3-Cre (n=2) and Fzd5^{LoxP/-}; Six3-Cre (n=4) mice eyes. Arrows in (B, D, F) indicate the retrolental vasculature in Fzd5^{LoxP/-}; Six3-Cre mice eyes. Arrowhead in (D) indicates ectopic photoreceptors. Le, lens.