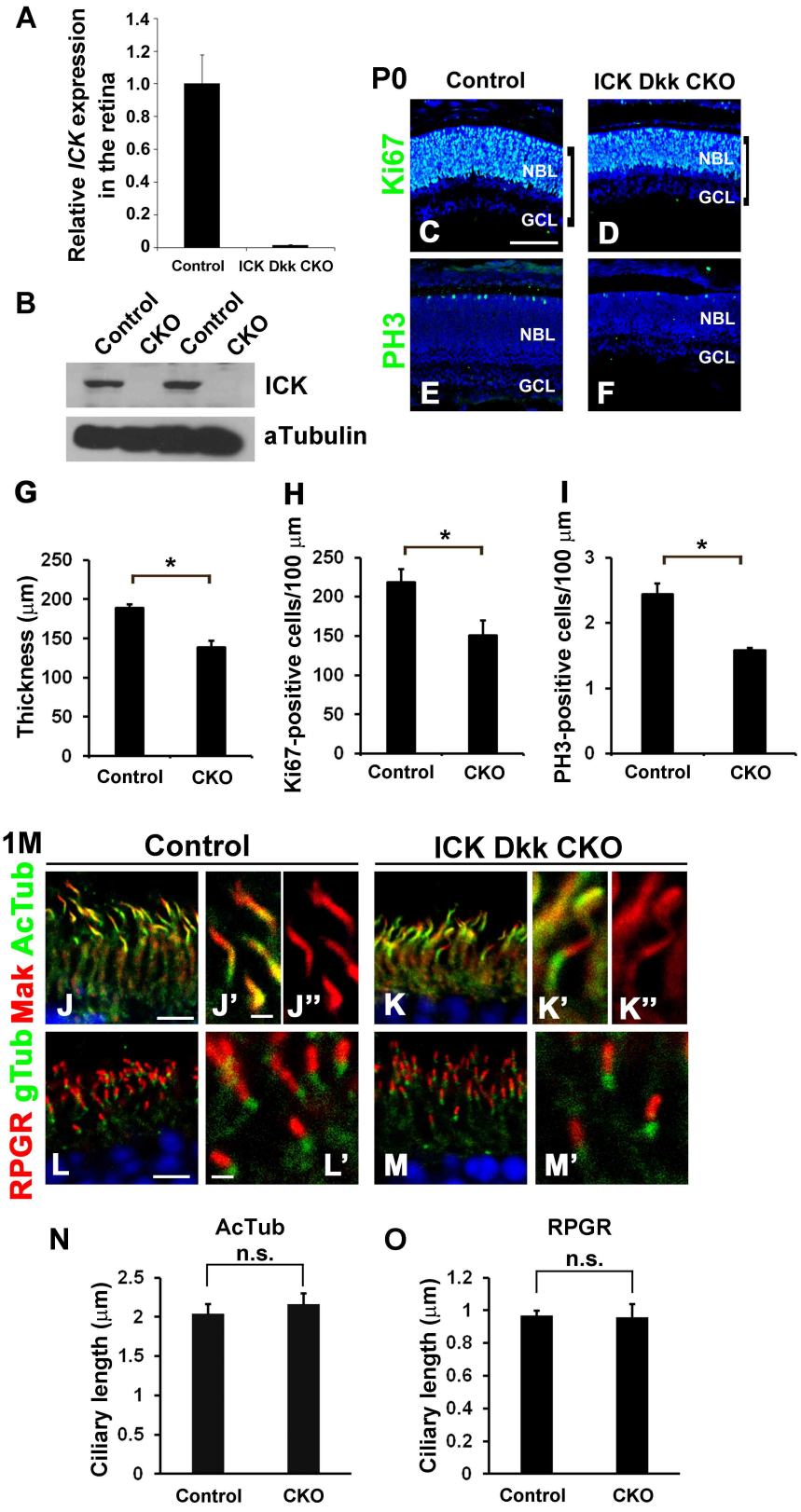

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Figure S4 Phenotypic analysis of the *ICK* Dkk3 CKO retina. (**A**) *ICK* mRNA expression levels in the P0 control and *ICK Dkk3* CKO retina were analyzed by Q-PCR. (**B**) ICK protein expression in the P0 control and *ICK Dkk3* CKO retina was examined by Western blot analysis. α-tubulin was used as a loading control. (**C–F**) Immunohistochemical analysis of the *ICK Dkk3* CKO retina at P0. Retinal sections from P0 control and *ICK Dkk3* CKO mice were immunostained with antibodies against cell proliferation markers, Ki67 (green in **C, D**) and PH3 (green in **E, F**). Cell proliferation significantly decreased in the *ICK Dkk3* CKO retina. (**G**) Retinal thickness is reduced in P0 *ICK Dkk3* CKO mice. (**H, I**) The numbers of Ki67-positive cells (**H**) and PH3-positive cells (**I**) in P0 control and *ICK Dkk3* CKO retinas were counted. (**J–M'**) Photoreceptor cilia were stained with antibodies against acetylated α-tubulin (green in **J–K"**) and Mak (red in **J–K"**) in one month-old control and *ICK Dkk3* CKO mice. Photoreceptor connecting cilia and basal bodies were stained with antibodies against RPGR (red in **L–M'**) and γ-tubulin (green in **L–M'**), respectively. No obvious difference was observed between the control and *ICK Dkk3* CKO retina. (**N, O**) The length of the photoreceptor cilia stained with antibodies against acetylated α-tubulin (**N**) and RPGR (**O**) was measured. There was no significant difference in ciliary length between control and *ICK Dkk3* CKO photoreceptors. Nuclei were stained with DAPI (blue). Scale bars, 100 μm (**C–F**), 5 μm (**J, K, L, M**), and 1 μm (**J', J", K', K", L', M'**). Error bars show the SD. *$p < 0.03$. n.s., not significant. NBL, neuroblastic layer; GCL, ganglion cell layer.