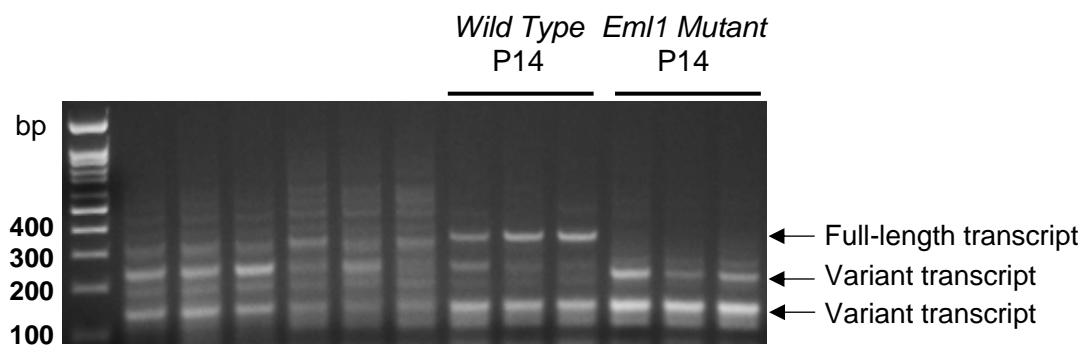


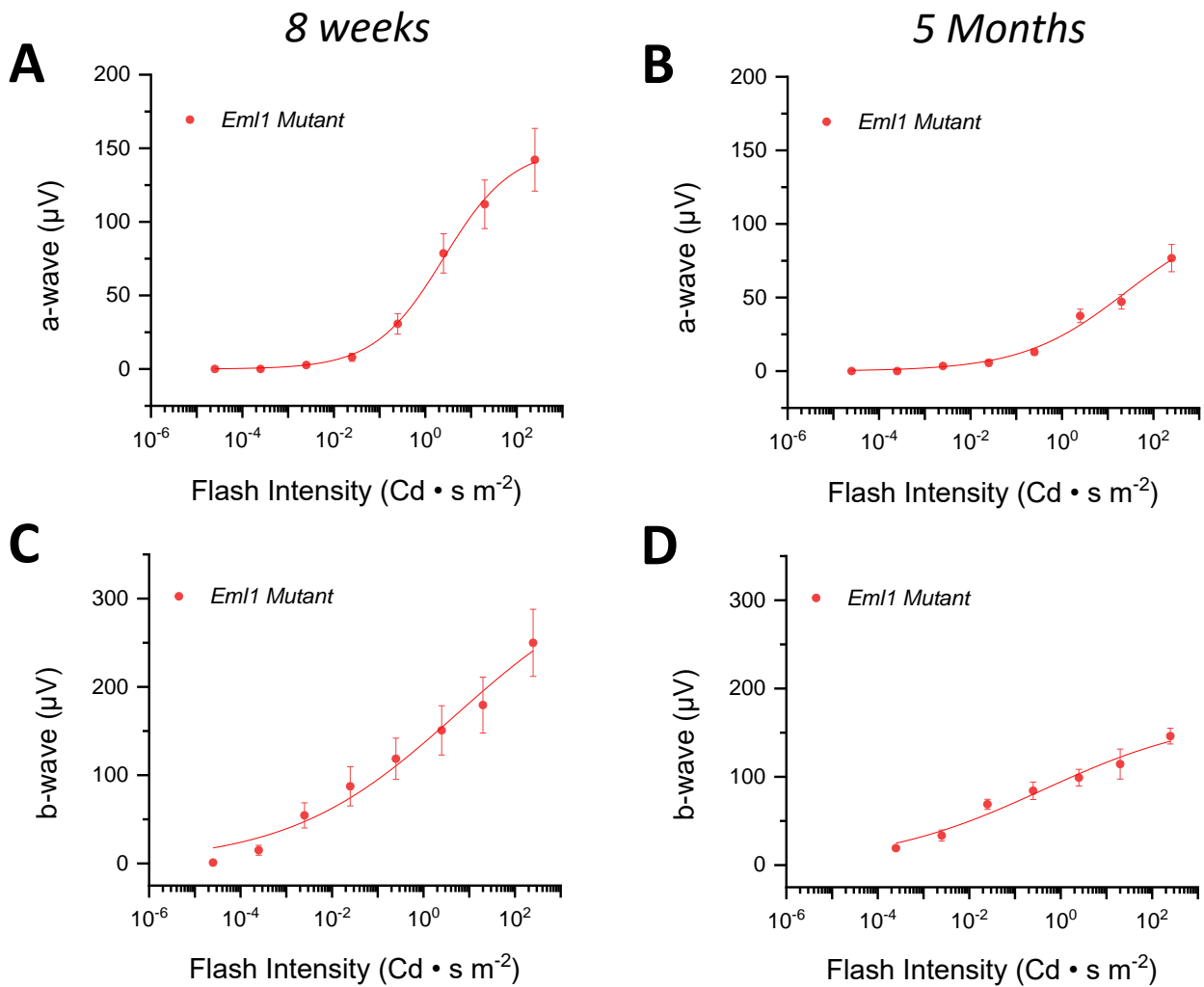
EML1 is essential for retinal photoreceptor migration and survival

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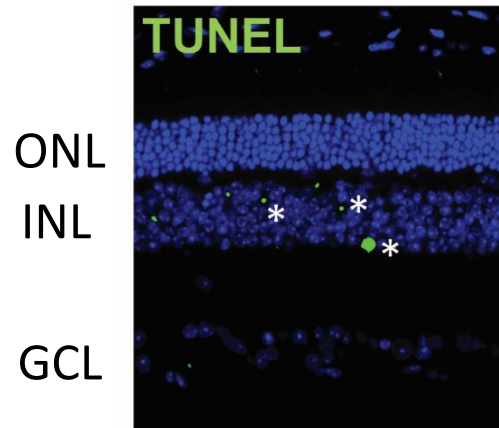


Supplementary Figure 1. RT-PCR from P14 wild type and age matched *Eml1* mutant mice. Complete gel image.

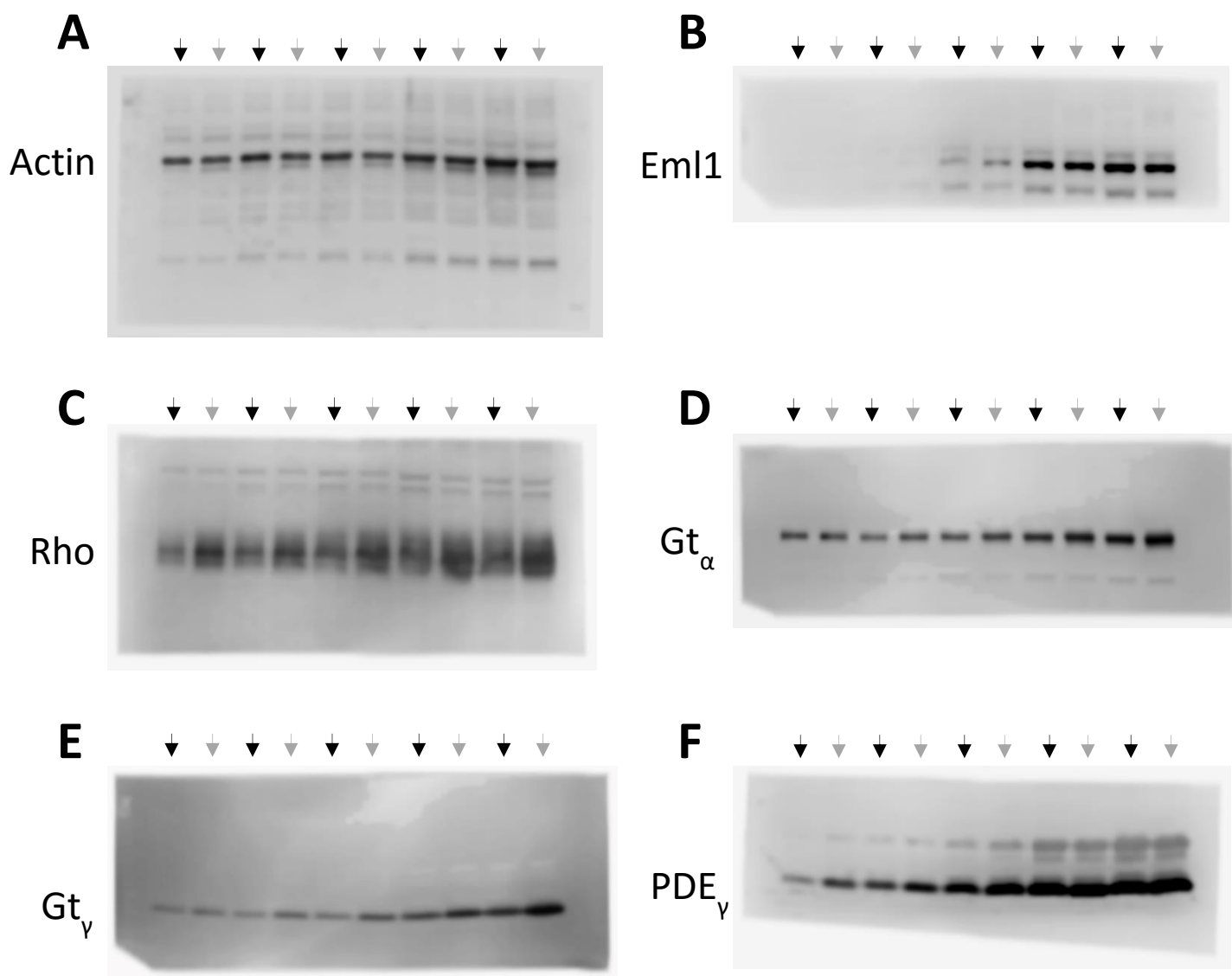


Supplementary Figure 2. *Eml1* mutant retina function with age. In-vivo ERG responses from *Eml1* mutant retinas in scotopic conditions recorded using light flashes (in $\text{Cd} \cdot \text{s m}^{-2}$): 2.5×10^{-5} , 2.5×10^{-4} , 2.5×10^{-3} , 2.5×10^{-2} , 0.25, 2.5, 20 and 250. Averaged intensity-response data for the a-wave responses (A, B) and b-wave responses (C, D) recorded at 8 weeks and 5 months old mice respectively. The continuous lines represent a fit to the data with the Naka-Rushton function. Error bars show S.E.M for all data.

5 Months



Supplementary Figure 3. Apoptosis of cells in adult *Eml1* mutant retina. TUNEL positive cells (*starred*) in the inner nuclear layer of 5 months old *Eml1* mutant mice.



Supplementary Figure 4. Western blots of *Eml1* mutant retina. Complete blot pictures showing protein samples from *Eml1* mutant (black arrows) and wild type control (gray arrows) retinas. Increasing amount of retina protein from left to right (applies to all gels shown).