Supplementary Materials

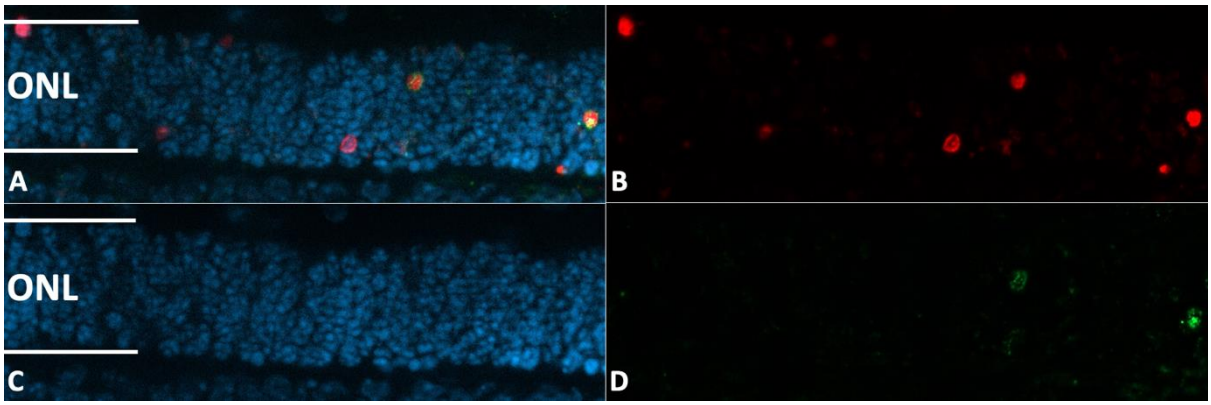

Figure S1. Co-staining for CDK1 and TUNEL in a rd1 retinal explant at a timepoint equivalent to P11. CDK1 was stained in green and TUNEL was stained in red, while DAPI (blue) was used as a nuclear counterstain. A: Immunostaining with multiple channels (red, green and blue). B: Single channel to represent TUNEL-positive cells. C: Single channel to represent DAPI. D: Single channel to represent CDK1-positive cells.

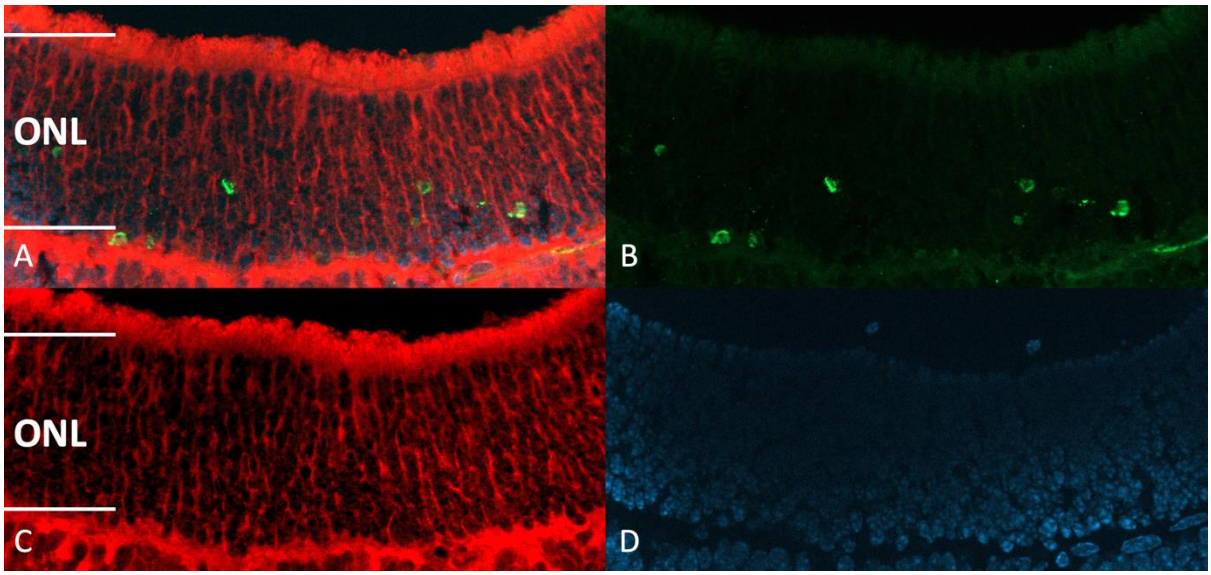

Figure S2. Co-staining for CDK1 and arrestin within ONL from rd1 model. CDK1 was stained in green and arrestin was stained in red, while DAPI (blue) was used as a nuclear counterstain. A: Immunostaining with multiple channels (red, green and blue). B: Single channel to represent CDK1-positive cells. C: Single channel to represent arrestin-positive cells. D: Single channel to represent DAPI.

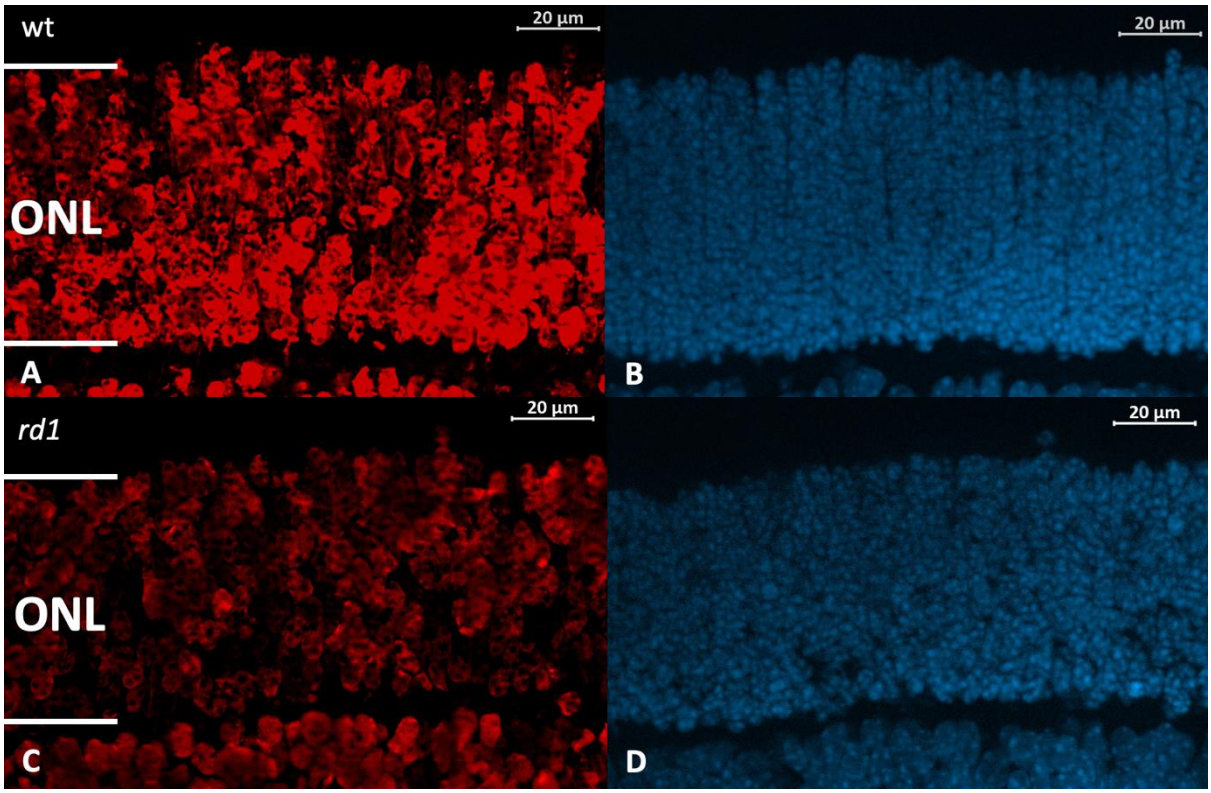

Figure S3. Evaluation of acetylated lysine (AC, red) expression within ONL from wt and its rd1 counterpart at P11, and DAPI (blue) was used as a nuclear counterstain. A: Immunostaining with multiple channels (red and blue). A, B: Single channel to represent AC-positive cells and DAPI, respectively in ONL from in a wt retina. C, D: Single channel to represent AC-positive cells and DAPI, respectively in ONL in an rd1 retina.

Figure S4. Immunostaining of CDK1 expression (green) within ONL of a P11 retinal explant from the wt strain (as a control to its rd1 counterpart), and DAPI (blue) was used as a nuclear counterstain. A: Immunostaining with multiple channels (green and blue). B: Single channel to represent CDK1-positive cells. C: Single channel to represent DAPI. Note the absence of green CDK1 signal.