

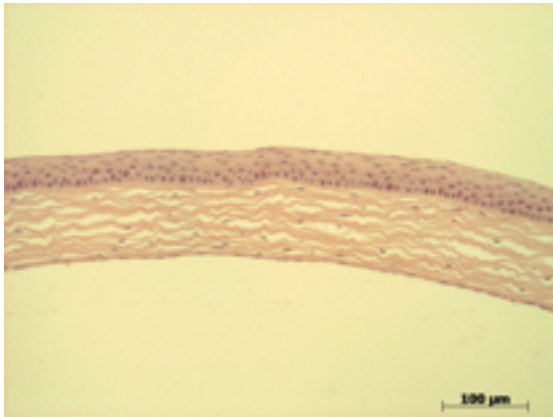
Gene: **Polg2**

Genotype + / -

Sanger Colony: MAZM

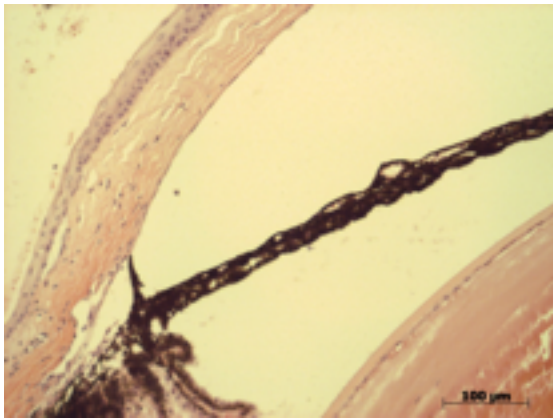
Abnormal Findings: Abnormal retina.

EYE Phenotype



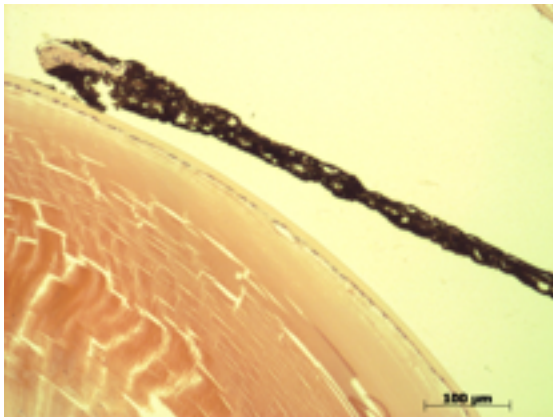
Cornea:

8/8. Normal corneal epithelium, stroma, and endothelium.



Anterior chamber:

8/8. The anterior chamber was of normal depth without cells, and the angle appeared open.



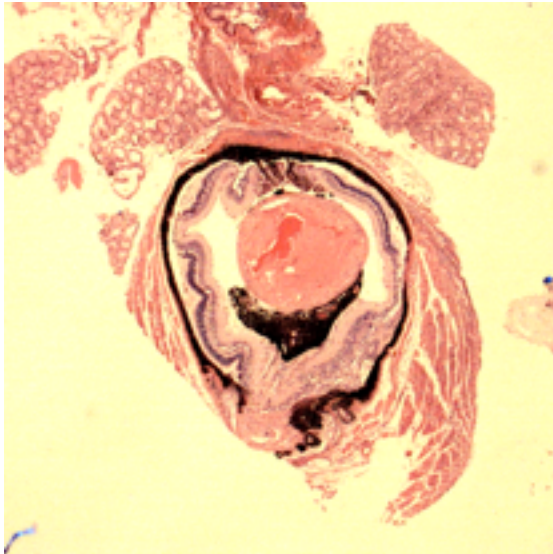
Iris:

8/8. The iris showed normal pigmentation without rubeosis or pupillary membranes.

Gene: **Polg2**

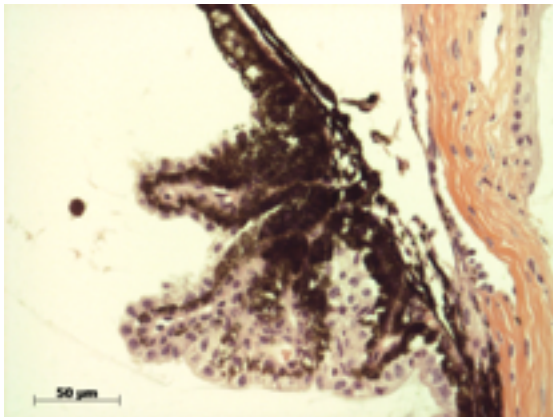
Genotype **+/-**

Sanger Colony: MAZM



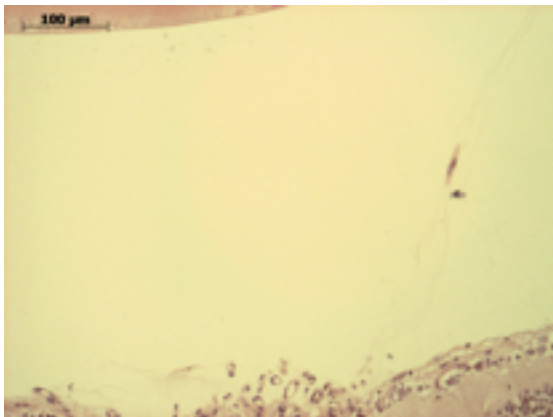
Lens/whole eye:

1/9. One eye was small with a cataract and abnormally formed retina with pigmented cells in the vitreous.



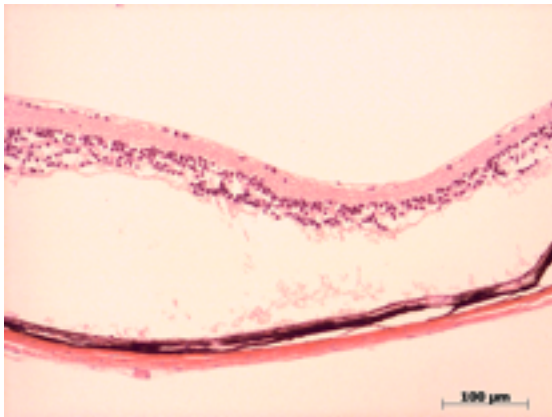
Ciliary body:

8/8. Normal stroma, pigmented and nonpigmented layers were present along with cilia.



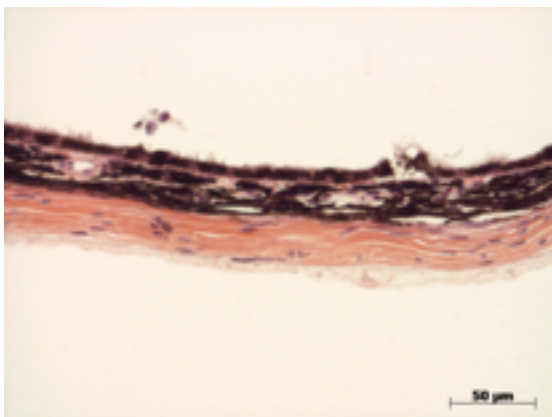
Vitreous:

4/8. Vitreous strands attached from the retina.



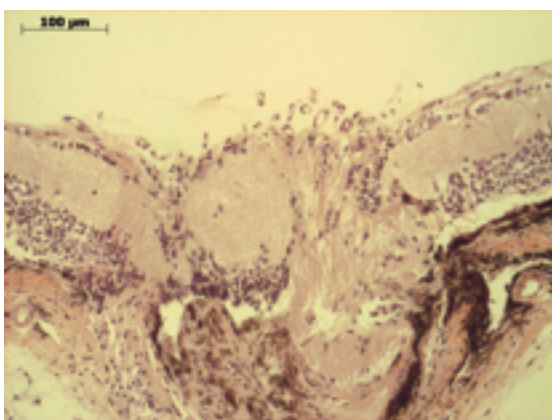
Retina:

6/9. There is severe retinal degeneration with loss of photoreceptors.



Retinal pigment epithelium and Choroid:

6/9. RPE cells are present in the subretinal space. Bruch's membrane is intact. No neovascular membranes were noted.



Optic Nerve:

6/6. The nerve is structurally abnormal.

Methods. 9 eyes from 5 male mice were enucleated by blunt dissection and fixed. Pupil-optic nerve sections were processed with hematoxylin and eosin, and standard images were captured under light microscopy for review.