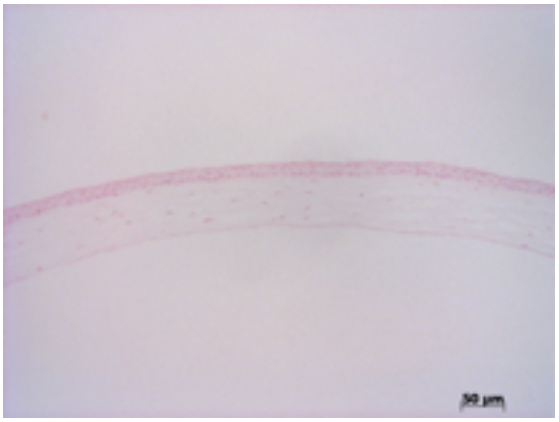
Gene: Herc3 Genotype +/-

Sanger Colony: MAAZ

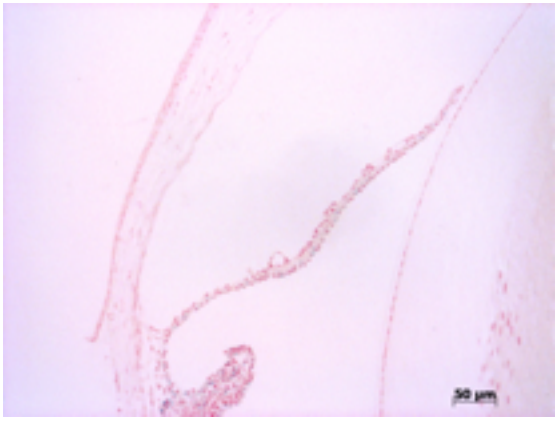
Abnormal Findings: X-gal staining in corneal retina and ciliary body.

EYE Phenotype



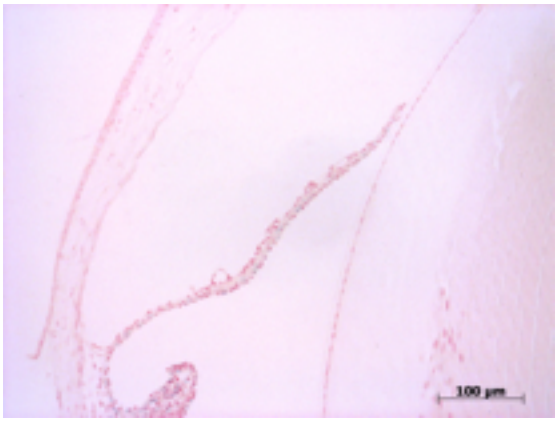
Cornea:

6/6. Normal corneal epithelium, stroma, and endothelium.



Anterior chamber:

6/6. The anterior chamber was of normal depth without cells, and the angle appeared open.



Iris:

6/6. The iris was without rubeosis or pupillary membranes.

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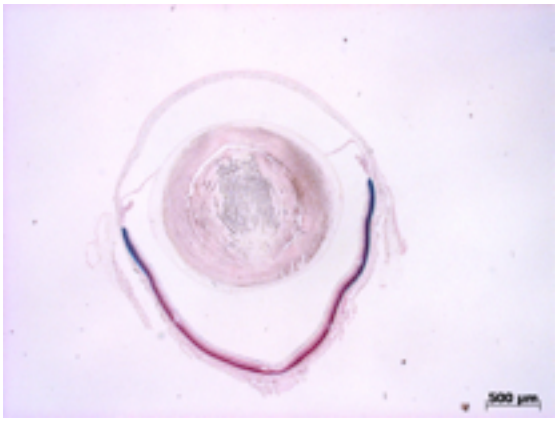
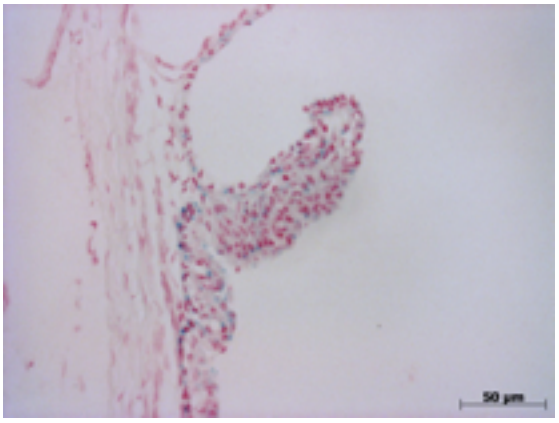


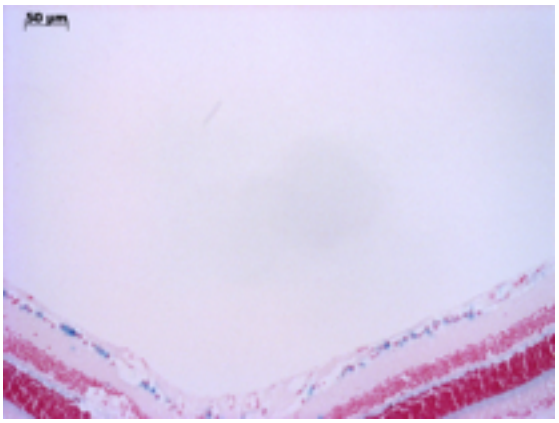
Lens:

6/6. No cataract was observed.



Ciliary body:

6/6. X-gal staining was present in the epithelial layer.



Vitreous:

6/6. No abnormal opacities or cells.

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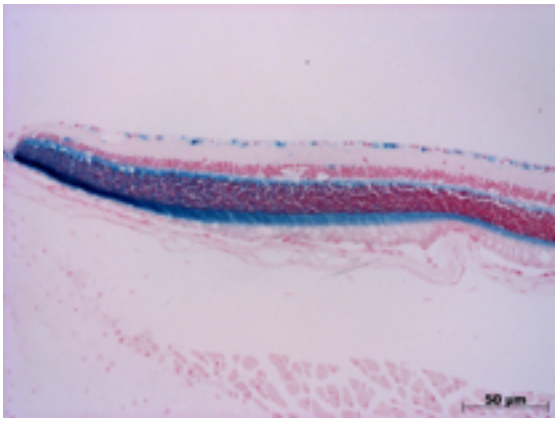
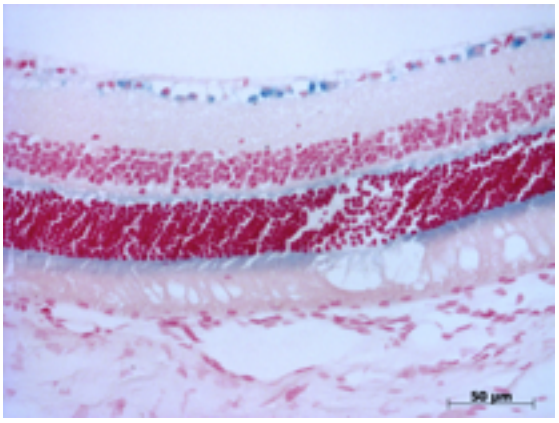


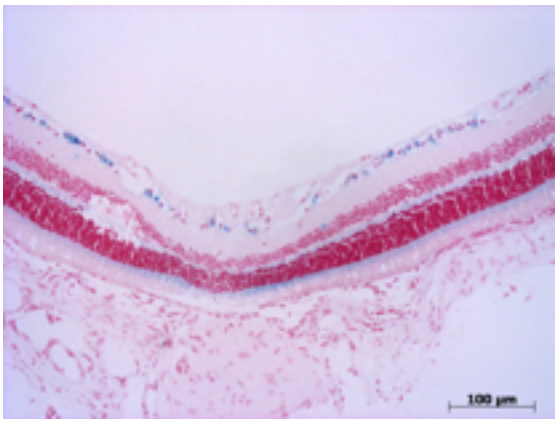
Retina:

6/6. There was x-gal staining in the retinal ganglion layer. There was also staining in the inner plexiform and photoreceptor inner segments. There was an expression gradient with more staining in the retinal periphery.



Retinal pigment epithelium and Choroid:

6/6. Bruch's membrane is intact. No neovascular membranes were noted.



Optic Nerve:

6/6. The nerve is normal.

Methods. 6 eyes from 3 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.