Gene: 4930471M23Rik Genotype -/-

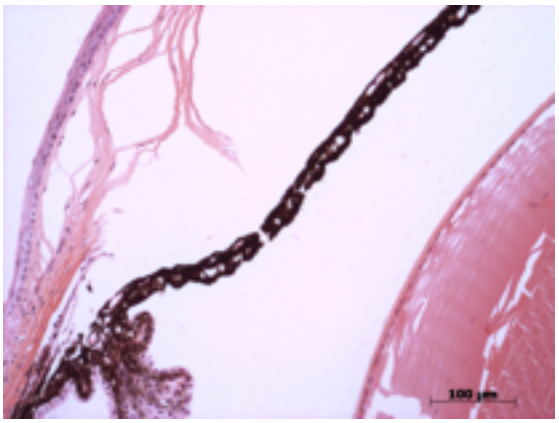
Sanger Colony: MCJX

Abnormal Findings: Abrnormal retina layers (MP:0003728), subretinal RPE cells (MP:0005549).

EYE Phenotype

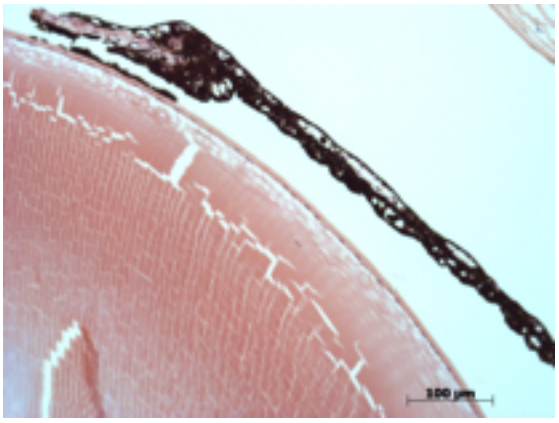
Cornea:

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 showed normal pigmentation without rubeosis or pupillary membranes.

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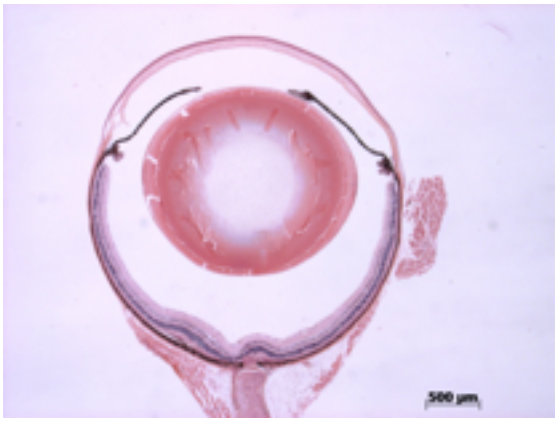
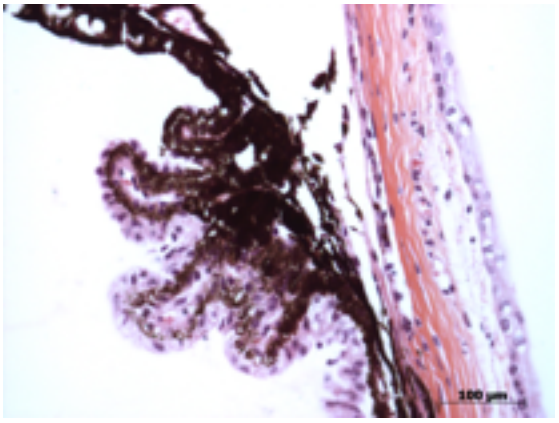


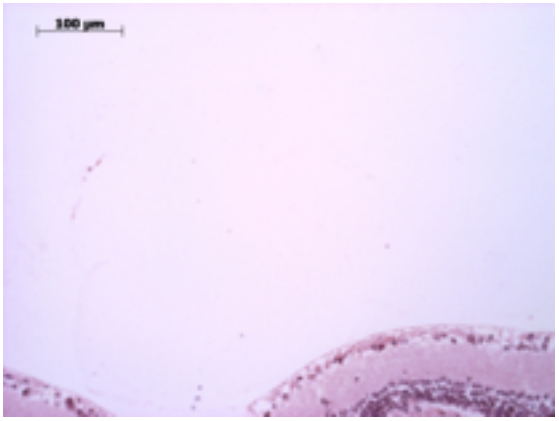
Lens:

6/6. No cataract was observed.



Ciliary body:

6/6. Normal stroma, pigmented and nonpigmented layers were present along with cilia.



Vitreous:

6/6. No abnormal opacities or cells.

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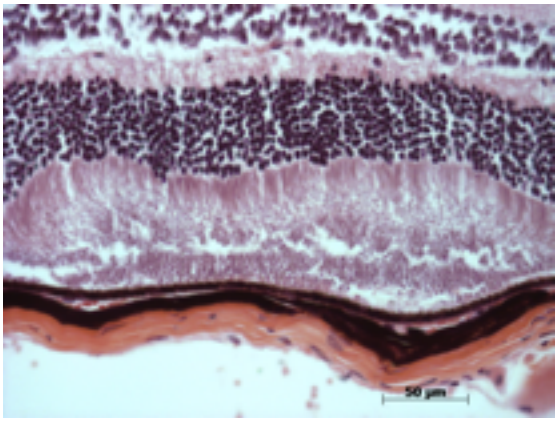
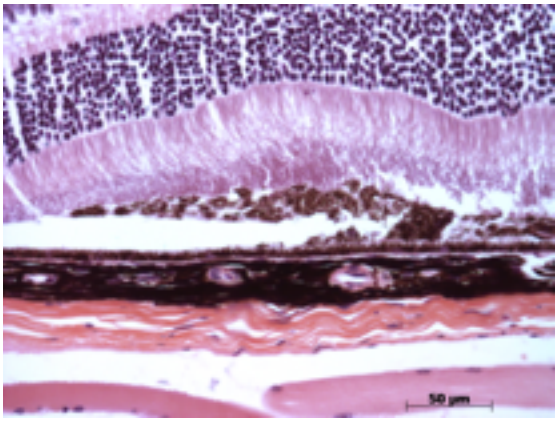


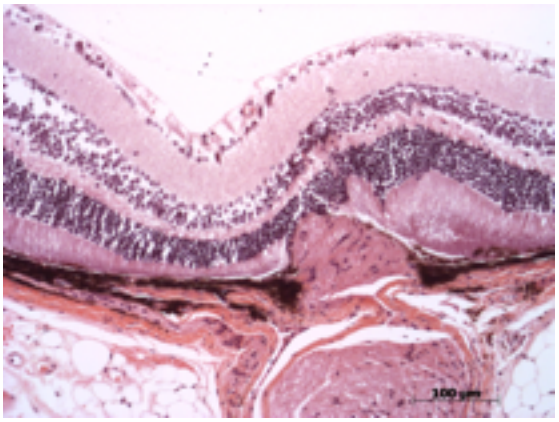
Retina:

3/6. The photoreceptor layer is abnormal with varied thickness and areas of subretinal RPE cells. The retinal ganglion and inner nuclear are normal.



Retinal pigment epithelium and Choroid:

1/6. There are subretinal RPE cells. Normal pigmentation. 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.