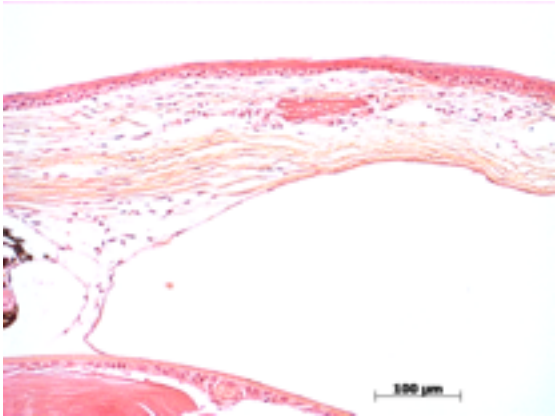
Gene: Spns2(b) Genotype -/-

Sanger Colony: MCSR

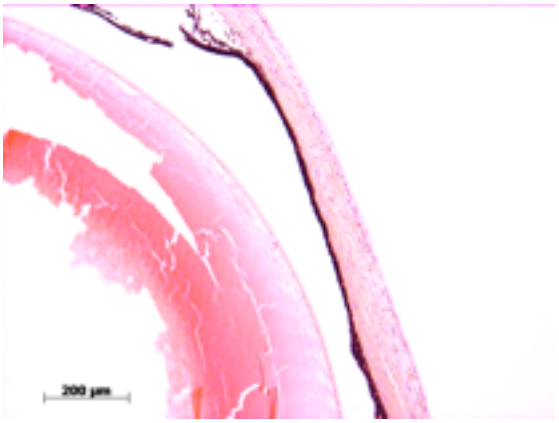
Abnormal Findings: Cornea (MP:0006233, MP:0001312, MP:0005542), Anterior chamber (MP:0005205), Iris (MP:0001322), Ciliary Body (MP:0005099), Retina (MP:0001325, MP:0003728)

EYE Phenotype



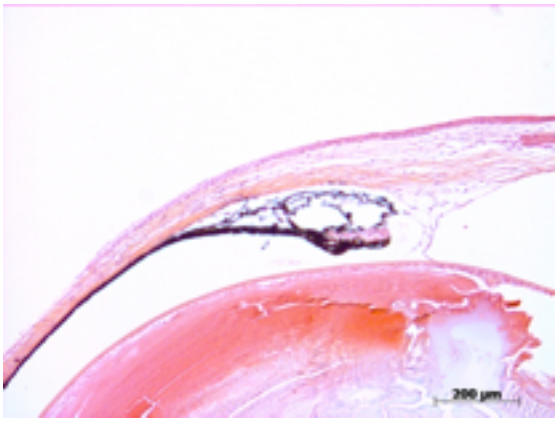
Cornea:

5/6. Corneal vascularization, opacity, and abnormal stromal morphology. The endothelium adheres to the lens.



Anterior chamber:

5/6. The anterior chamber was narrow, the iris adheres to the cornea, and there is abnormal pigment in the angle.



Iris:

5/6. The iris showed normal pigmentation, but was adherent to the cornea.

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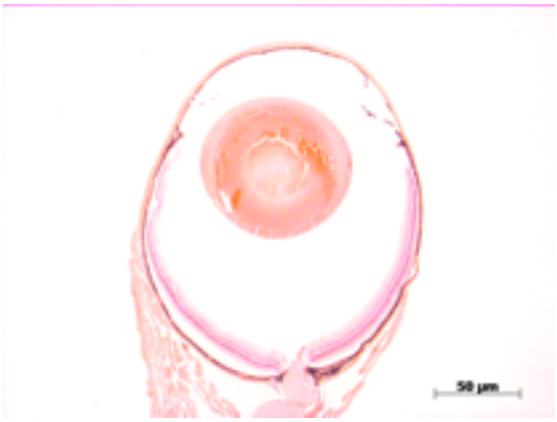
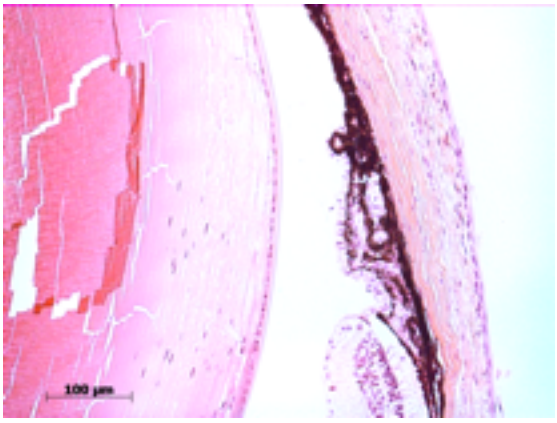


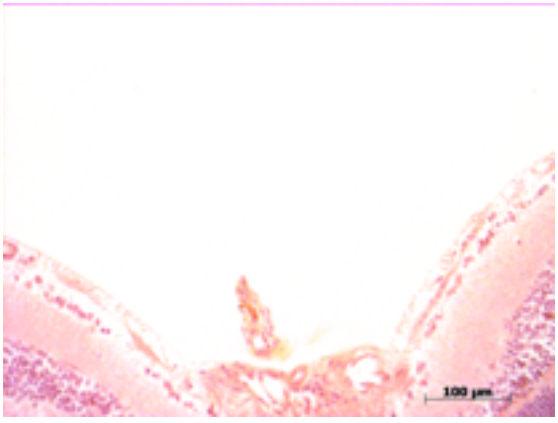
Lens:

6/6. The lens is small and cataractous.



Ciliary body:

4/6. The ciliary processes are blunt or missing.



Vitreous:

6/6. No abnormal opacities or cells.

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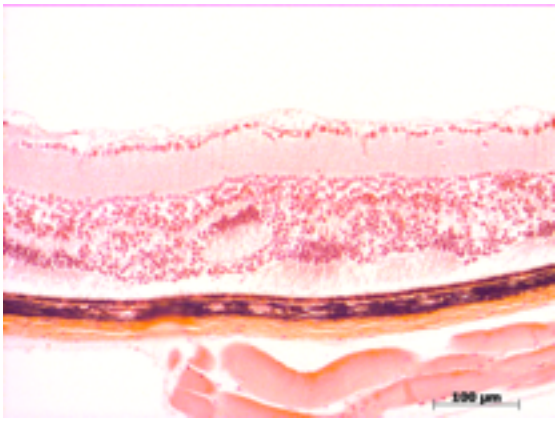
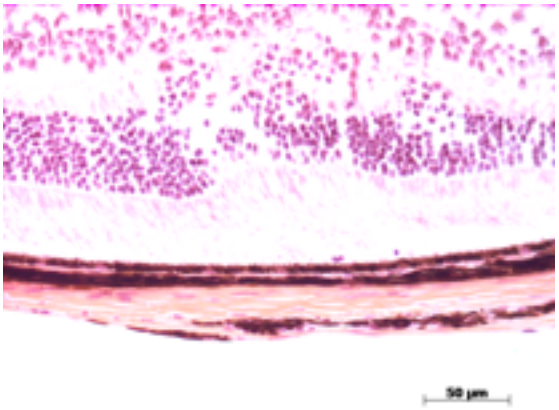


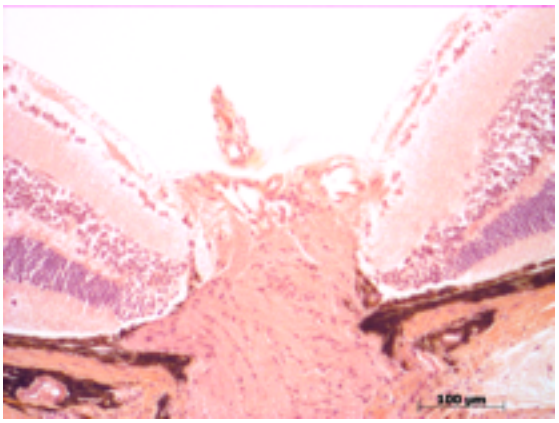
Retina:

5/6. The retinal ganglion, inner nuclear are normal. The photoreceptor layers are abnormal and appear to be degenerative.



Retinal pigment epithelium and Choroid:

6/6. 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.