## Overview

Retinal degeneration 8 (rd8) is a spontaneous frame shift mutation in the Crb1 (crumbs homolog 1 (Drosophila)) gene. Mice homozygous for the rd8 allele exhibit a discontinuous and fragmented zona adherens, shortened photoreceptor inner and outer segments, and areas of retinal degeneration (retinal spotting).

### READ MORE +

## Genetic Overview

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<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<td>N2N4F7+19</td>
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<thead>
<tr>
<th>Crb1&lt;sup&gt;rd8&lt;/sup&gt;</th>
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<tr>
<td>Allele Type</td>
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<td><strong>Cdh23^ahl</strong></td>
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**RESEARCH APPLICATIONS**
Neurobiology Research  
Sensorineural Research  
Developmental Biology Research  
Cell Biology Research  
Mouse/Human Gene Homologs

**BASE PRICE**
Starting at:  
$205.90 Domestic price for female

**Details**

**Important Note**
The C57BL/6J background strain is homozygous for the age related hearing loss mutation Cdh23^ahl, which on this background results in progressive hearing loss with onset after 10 months of age.

**Detailed Description**
Crb1 (crumbs homolog 1 (Drosophila)) encodes a transmembrane protein that localizes to the apical membrane of epithelial cells and is involved in cell polarity in the retina and in the assembly of zonula adherens. Mutations in CRB1 are associated with retinitis pigmentosa and Lebers congenital amaurosis. Mice homozygous for retinal degeneration 8 (rd8) exhibit a discontinuous and fragmented zona adherens, shortened photoreceptor inner and outer segments by 2 weeks of age, and large retinal spots. In contrast to phenotypes associated with other retinal degeneration alleles, retinal degeneration in rd8 mutants is localized to the retinal spots. Within these spots, caused by retinal folds and pseudorosettes, retinal thinning in both the inner and outer nuclear layers is observed. The phenotype associated with rd8 allele is variable depending on genetic background. On the C57BL/6 background, 19% of homozygotes do not exhibit retinal spotting.

**Development**

**Control Suggestions**
Genotyping Protocols
End Point Analysis: Crb1rd8
Genotyping resources and troubleshooting

Mating System
Homozygote x Homozygote

Appearance
black
Related Genotype: a/a

Citation
When using the F1OCK.Crb1rd8/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #003392 in your Materials and Methods section.
Facility Barrier Level Descriptions

Pricing & Availability
## Payment Terms and Conditions

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## Terms Of Use

### Terms of Use

General Terms and Conditions

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## Licensing Information

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Email: TechTran@jax.org

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