**Overview**

Also Known As: retinal degeneration 16, rd16

The spontaneous mutation, *Cep290<sup>rd16</sup>*, was discovered in the BXD24 recombinant inbred strain. Mice exhibit complete degeneration of retinal photoreceptors resulting in blindness.
The BXD RI strains are used to study the genetics of behavioral phenotypes including alcohol and drug addiction, stress, and locomotor activity. The BXD set of RI strains also is used in the genetic analysis of numerous complex or potentially complex physiologic phenotypes including differences in organ weight and bone mineral density. The strain distribution pattern (SDP) for BXD RI strains is available through the Mouse Genome Informatics Recombinant Inbred Strain Distribution Patterns.

In 2004, a spontaneous mutation, rd16, was discovered in the BXD24/TyJ recombinant inbred line. Mice exhibit complete degeneration of retinal photoreceptors (Seecharan et al. 2003) resulting in blindness.
Genotyping Protocols
Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Mating System
Sibling x Sibling

Appearance
chocolate brown

Related Genotype: *a/a Tyrp1<sup>b</sup>/Tyrp1<sup>b</sup> Myo5a<sup>+</sup>/Myo5a<sup>+</sup>*

Citation
When using the rd16 mouse strain in a publication, please cite the originating article(s) and include JAX stock #000031 in your Materials and Methods section.

Animal Health Reports

Available

Live mice available in varying quantities. Ask Customer Service for details.

Live Mouse

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<tr>
<th>AGE</th>
<th>SEX</th>
<th>PRICE</th>
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<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>$139.90</td>
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<tr>
<td></td>
<td>Male</td>
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Terms Of Use

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Phone: 207-288-6470
Email: TechTran@jax.org

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### Related Strains

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All Related Strains