Also Known As: B6 albino, albino B6

B6(Cg)-Tyr<sup>−/−</sup>/J, or B6-albino mice, are C57BL/6J mice that carry a mutation in the tyrosinase gene. Pigment is completely absent from skin, hair and eyes in mice homozygous for <i>Tyr<sup>−/−</sup></i>. This unique characteristic makes these mice ideal for creation of novel strains with targeted mutations (gene knockouts). B6-albino mice are used to generate blastocysts that can be used for microinjection of genetically modified C57BL/6J embryonic stem cells. Following implantation and gestation, resulting offspring that
are chimeric for the donor embryonic stem cells and the recipient blastocyst are easily identified by coat color. This allows an easy method to create knockout mice on the C57BL/6J genetic background.

**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</table>

**Tyr<sup>c-2J</sup>**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
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<tbody>
<tr>
<td>Spontaneous</td>
<td>Tyr</td>
<td>tyrosinase</td>
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**Cox7a2<sup>ls</sup>**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Applicable (Not Specified)</td>
<td>Cox7a2&lt;sup&gt;l&lt;/sup&gt;</td>
<td>cytochrome c oxidase subunit 7A2 like</td>
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**RESEARCH APPLICATIONS**

- Research Tools
- Dermatology Research
- Sensorineural Research
- Mouse/Human Gene Homologs

**BASE PRICE**

Starting at:

$33.75 Domestic price for female 3-week

Mice homozygous for Tyr<sup>c-2J</sup> are phenotypically identical to homozygotes for the classic albino allele. Pigment is completely absent from skin, hair and eyes. While Tyr mRNA levels of Tyr<sup>c-2J</sup> homozygotes are similar to those of wild-type mice, there is virtually no tyrosinase protein present (Le Fur et al. 1996). Both homozygote and heterozygote mice are highly resistant to light damage and exhibit retinal degeneration (increased photoreceptor death) into young adulthood. Degeneration does not continue in adult mice.
Genotyping Protocols
Pyrosequencing: Tyr
End Point Analysis: Tyr alternative 1
Genotyping resources and troubleshooting
Dietary Information
LabDiet® 5K52 formulation (6% fat)
Breeding Considerations
This strain is a good breeder.
Additional Breeding and Husbandry Support
Mating System
Homozygote x Homozygote
Appearance
albino
Related Genotype: a/a Tyr^c,-2J/Tyr^c,-2J
Citation

When using the B6(Cg)-Tyr<sup>c-2J</sup> mouse strain in a publication, please cite the originating article(s) and include JAX stock #000058 in your Materials and Methods section.

Related Products and Services

Animal Health Reports

Facility Barrier Level Descriptions

Pricing & Availability

Readily Available

Domestic

International

Pricing effective for USA, Canada and Mexico shipping destinations

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<td>Female</td>
<td>Homozygous for Tyr&lt;sup&gt;c-2J&lt;/sup&gt;</td>
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<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Tyr&lt;sup&gt;c-2J&lt;/sup&gt;</td>
<td>$33.75</td>
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<tr>
<td>4 weeks</td>
<td>Female</td>
<td>Homozygous for Tyr&lt;sup&gt;c-2J&lt;/sup&gt;</td>
<td>$33.75</td>
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<td></td>
<td>Male</td>
<td>Homozygous for Tyr&lt;sup&gt;c-2J&lt;/sup&gt;</td>
<td>$33.75</td>
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<tr>
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<td>Female</td>
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<td></td>
<td>Male</td>
<td>Homozygous for Tyr&lt;sup&gt;c-2J&lt;/sup&gt;</td>
<td>$33.75</td>
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<tr>
<td>6 weeks</td>
<td>Female</td>
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<tr>
<td>11 weeks</td>
<td>Female</td>
<td>Homozygous for Tyr&lt;sup&gt;c-2J&lt;/sup&gt;</td>
<td>$51.57</td>
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<td>12 weeks</td>
<td>Female</td>
<td>Homozygous for Tyr&lt;sup&gt;c-2J&lt;/sup&gt;</td>
<td>$54.59</td>
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<td></td>
<td>Male</td>
<td>Homozygous for Tyr&lt;sup&gt;c-2J&lt;/sup&gt;</td>
<td>$54.59</td>
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By Allele

By Gene

By Collection

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TOMORROW'S CURES

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