B6(Cg)-Tyr<sup>c-2j</sup>/J

Stock No: 000058

Spontaneous Mutation

**Overview**

Also Known As: B6 albino, albino B6

B6(Cg)-Tyr<sup>c-2j</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 Tyr<sup>c-2j</sup>. 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>F48+51N3F4pN3F16</td>
<td></td>
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</tbody>
</table>

Tyr<sup>c-2j</sup>
<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spontaneous</td>
<td>Tyr</td>
<td>tyrosinase</td>
</tr>
</tbody>
</table>

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