These B6.albino;hairless mice are a C57BL/6-congenic line harboring both the albino allele (Tyr) and hairless allele (Hr). The lack of skin pigmentation and hair allow studying ultraviolet light-induced carcinogenesis.

Donating Investigator
IMR Colony, The Jackson Laboratory
Cathleen Lutz, The Jackson Laboratory
John P Sundberg, The Jackson Laboratory

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N3F6</td>
</tr>
<tr>
<td></td>
<td>(2019-10-03 00:00:00)</td>
</tr>
</tbody>
</table>

**Hr**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spontaneous</td>
<td>Hr</td>
<td>lysine demethylase and nuclear receptor corepressor</td>
</tr>
</tbody>
</table>

**Tyr**

<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>
These B6.albino;hairless mice are a C57BL/6-congenic line harboring both the albino allele (Tyr<sup>c-2/J</sup>) and hairless allele (H<sup>hr</sup>). The lack of skin pigmentation and hair allow studying ultraviolet light-induced carcinogenesis.

C57BL/6J-congenic albino mice are described and available from The Jackson Laboratory as Stock No. 000058.

C57BL/6J-congenic hairless mice are described and available from The Jackson Laboratory as Stock No. 001737. Females homozygous for the hairless mutation may become pregnant, but have poor lactation and fail to keep their pups warm; resulting in death of their litters.

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. It should be noted that the phenotype of the C57BL/6-congenic albino;hairless mice could vary from that originally described for the individual mutant lines. We will modify the strain description if necessary as published results become available.
Breeding Considerations

Note that C57BL/6-congenic hairless mice (Stock No. 001737) are born with hair, but the hair is lost by approximately ten days of age. Females homozygous for the hairless mutation may become pregnant, but have poor lactation and fail to keep their pups warm; resulting in death of their litters.

To maintain the live B6.albino;hairless colony (Stock No. 017840), females homozygous for the albino mutation and heterozygous for the hairless mutation are bred with males homozygous for the albino mutation and homozygous for the hairless mutation. That is, albino females with hair are bred with albino hairless males.

Additional Breeding and Husbandry Support

Mating System

See "Breeding Considerations"
Citation
When using the C57BL/6 albino;hairless mouse strain in a publication, please cite the originating article(s) and include JAX stock #017840 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

- FGB29 (Standard)

Pricing & Availability

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

Available

Live Mouse

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Homozygous for Tyr^{c-2J} Heterozygous for Hr^{hr}</td>
<td>$278.00</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Tyr^{c-2J} Heterozygous for Hr^{hr}</td>
<td>$278.00</td>
</tr>
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<td>Male</td>
<td>Homozygous for Tyr^{c-2J} Homozygous for Hr^{hr}</td>
<td>$278.00</td>
</tr>
</tbody>
</table>

Breeder Pair

<table>
<thead>
<tr>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female</td>
<td>Homozygous for Tyr^{c-2J} Heterozygous for Hr^{hr}</td>
<td>$556.00</td>
</tr>
<tr>
<td>Male</td>
<td>Homozygous for Tyr^{c-2J} Homozygous for Hr^{hr}</td>
<td>$556.00</td>
</tr>
</tbody>
</table>

Related Products and Services

- Frozen Mouse Embryo
  
  B6.Cg-Tyr^{c-2J} Hr^{hr}/J
  
  $2595.00

Payment Terms and Conditions

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.
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Terms Of Use

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

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