B6.Cg-Tyr<sup>c-2J</sup> Hr<sup>hr/J</sup>

Stock No: 017840 | C57BL/6 albino;hairless

- Congenic, Spontaneous Mutation

**Overview**

Also Known As: C57BL/6 albino;hairless

These B6.albino;hairless mice are a C57BL/6-congenic line harboring both the albino allele (Tyr<sup>c-2J</sup>) and hairless allele (Hr<sup>hr</sup>). 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

PLACE ORDER

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

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N3F5</td>
</tr>
<tr>
<td></td>
<td>(2019-03-06 00:00:00)</td>
</tr>
</tbody>
</table>

**Hr^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^c-2J**

<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>

VIEW GENETICS

RESEARCH APPLICATIONS

Dermatology Research
Sensorineural Research
Mouse/Human Gene Homologs
Cancer Research
Research Tools
Immunology, Inflammation and Autoimmunity Research
Cardiovascular Research
Developmental Biology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

$278.00 Domestic price for female

$556.00 Domestic price for breeder pair

VIEW PRICE LIST

Details

Detailed Description

These B6.albino;hairless mice are a C57BL/6-congenic line harboring both the albino allele (Tyr^c-2J) and hairless allele (Hr^hr). 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.

- Development
- Control Suggestions
- Selected References

- Genetics
  - \( Hr^{hr} \)
  - \( Tyr^{-2j} \)

- Disease/Phenotype
  - Disease Terms
  - Research Areas By Genotype
  - Mammalian Phenotype Terms by Genotype
  - References

- Technical Support
  
  CONTACT TECHNICAL SUPPORT

Genotyping Protocols
SEPARATED MELT: \( Hr^{hr} \)
Genotyping resources and troubleshooting

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

Facility Barrier Level Descriptions

FB29 (Standard)

Pricing & Availability

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

<table>
<thead>
<tr>
<th>Domestic</th>
<th>International</th>
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</thead>
</table>

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>
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Breeder Pair

<table>
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<tr>
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<th>PRICE</th>
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Related Products and Services

Frozen Mouse Embryo $2,595.00 per straw or vial
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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Phone: 207-288-6470
Email: TechTran@jax.org

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## Related Strains

### All

### By Allele

### By Gene

### By Collection

All Related Strains
Leading the search for

TOMORROW'S CURES

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