These mice carry the pink-eyed dilution allele and a spontaneous mutation at the Prop1 locus that is characterized by growth retardation.

**GENETIC OVERVIEW**

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

**Oca2<sup>o</sup>**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spontaneous</td>
<td>Oca2</td>
<td>oculocutaneous albinism II</td>
</tr>
</tbody>
</table>

**Prop1<sup>df</sup>**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spontaneous</td>
<td>Prop1</td>
<td>paired like homeodomain factor 1</td>
</tr>
</tbody>
</table>

**RESEARCH APPLICATIONS**

Dermatology Research  
Mouse/Human Gene Homologs  
Neurobiology Research  
Developmental Biology Research  
Endocrine Deficiency Research  
Immunology, Inflammation and Autoimmunity Research
Mice homozygous for the Ames dwarf spontaneous mutation ($Prop1^{df}$) resemble mice homozygous for the Snell's dwarf mutation ($Pit1^{df}$). Homozygous Ames dwarf mutant mice show growth retardation after the first postnatal week, and weight at 2 months is only about one-half normal. Females and most males are sterile. There is no detectable growth hormone or prolactin. Ames dwarf mice have a secondary immune deficiency presumably resulting from the lack of growth hormone.
Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols
Pyrosequencing: Prop1
Sanger sequencing: Prop1-SEQ
Genotyping resources and troubleshooting

Appearance
pink-eyed fawn, small body size
Related Genotype: Oca2^p^ / Oca2^p^ Prop1^{df}/Prop1^{df}

pink-eyed fawn, normal size
Related Genotype: Oca2^p^ / Oca2^p^ Prop1^{df}/+ or Oca2^p^ / Oca2^p^ +/-?

Citation
When using the Ames dwarf mouse strain in a publication, please cite the originating article(s) and include JAX stock #001618 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

Pricing & Availability

Cryo Recovery
Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

<table>
<thead>
<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Homozygous for Oca2&lt;p&gt;, Homozygous or Heterozygous or wild-type for</td>
<td>$2,854.50</td>
</tr>
</tbody>
</table>
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.

THE JACKSON LABORATORY'S GENOTYPE PROMISE

The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. Therefore, we cannot guarantee a strain's phenotype will meet all expectations. To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project. We do not guarantee breeding performance and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

LICENSED INFORMATION

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

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"MICE" means mouse strains, their progeny derived by inbreeding or crossbreeding, unmodified derivatives from mouse strains or their progeny supplied by The Jackson Laboratory ("JACKSON"). "PRODUCT(S)" means biological materials supplied by JACKSON, and their derivatives. "SERVICES" means projects conducted by JACKSON for other parties that may include but are not limited to the use of MICE or PRODUCTS. "RECIPIENT" means each recipient of MICE or PRODUCTS provided by JACKSON including each institution, its employees and other researchers under its control. MICE or PRODUCTS shall not be: (i) used for any purpose other than internal research, (ii) sold or otherwise provided to any third party for any use, or (iii) provided to any agent or other third party to provide breeding or other services. Acceptance of MICE, PRODUCTS or SERVICES from JACKSON shall be deemed as agreement by RECIPIENT to these conditions, and departure from these conditions requires JACKSON's prior written authorization.

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**Credit for PRODUCTS or SERVICES**

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Consistent with the requirement for a written understanding regarding animal care and use, the JACKSON Animal Care and Use Committee will review the animal care and use protocol(s) associated with any SERVICES to be performed at JACKSON, and JACKSON shall have ultimate responsibility and authority for the care of animals while on site or in JACKSON custody.

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**Related Strains**

- **All**
- **By Allele**
- **By Gene**
- **By Collection**