C57BL/6J-Utp14b^{jtd/J}

Stock No: 000708 | juvenile spermatogonial depletion

Coisogenic, Spontaneous Mutation

CRYO RECOVERY

PLACE ORDER

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

Overview

Also Known As: juvenile spermatogonial depletion

These mice carry a spontaneous mutation at the Utp14b locus characterized by small testes, azoospermia, and infertility in homozygous males.
GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td><strong>Utp14b&lt;sup&gt;isd&lt;/sup&gt;</strong></td>
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<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Spontaneous</td>
<td>Utp14b</td>
<td>UTP14B small subunit processome component</td>
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RESEARCH APPLICATIONS

Endocrine Deficiency Research  
Reproductive Biology Research

BASE PRICE

Starting at:

$2,864.50 Domestic price Cryo Recovery with Progeny Testing

Details

Detailed Description

Utp14b<sup>isd</sup> (UTP14B small subunit processome component; juvenile spermatogonial depletion) homozygous males have small testes, normal serum testosterone, elevated serum follicle-stimulating hormone, azoospermia, normal body and seminal vesicle weights, and are infertile. A reduction in the number of spermatogenic cells is seen at 3-4 weeks, and by 8-10 weeks most tubules are devoid of germ cells, leaving only Sertoli cells. homozygous females are unaffected.

Development

Control Suggestions

Selected References

Genetics

Utp14b<sup>isd</sup>
Genotyping Protocols
Genotyping resources and troubleshooting

Breeding Considerations
Homozygous males are infertile. Homozygous females are unaffected.
Additional Breeding and Husbandry Support

Citation
When using the in vitro spermatogonial depletion mouse strain in a publication, please cite the originating article(s) and include JAX stock #000708 in your Materials and Methods section.

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

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

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<th>Cryo Recovery - Domestic Pricing</th>
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<td>SERVICE</td>
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<tr>
<td>Cryo Recovery with Progeny Testing</td>
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</table>

A molecular assay to genotype this strain is not available. We will fulfill your order by providing at least two untested males and two
untested females (two pairs). The total number, sex, and genotypes will vary, although typically 8 or more mice are provided. Untested animals typically are available to ship between 10 and 14 weeks from the date of your order. If the first recovery attempt is unsuccessful, a second recovery will be done, extending the overall recovery time to approximately 25 weeks. **Progeny testing may be required** – If recovered animals do not display a phenotype, progeny testing will be required. This testing involves breeding the recovered animals and assessing the phenotype of the offspring in order to identify animals carrying the mutation of interest. Please note that identified pairs may not reflect the mating scheme utilized by The Jackson Laboratory prior to cryopreservation of the strain. Mating schemes are sometimes modified for successful cryopreservation. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a **Dedicated Supply** for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

**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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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.

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Email: TechTran@jax.org  
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Related Strains

- All
- By Allele
- By Gene
- By Collection

All Related Strains