129P3/J-Lepr db-3/J

Stock No: 000709 | diabetes 3 Jackson

Spontaneous Mutation

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: diabetes 3 Jackson

These mice carry a spontaneous mutation at the Lepr locus characterized by obesity and elevation of plasma insulin and blood sugar.
**Genetic Background**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Spontaneous</td>
<td>Lepr</td>
<td>leptin receptor</td>
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</table>

**RESEARCH APPLICATIONS**
- Metabolism Research
- Diabetes and Obesity Research
- Internal/Organ Research
- Reproductive Biology Research
- Mouse/Human Gene Homologs
- Endocrine Deficiency Research
- Immunology, Inflammation and Autoimmunity Research

**BASE PRICE**
Starting at:

$2,595.00 Domestic price Cryo Recovery with Progeny Testing

**Details**

**Detailed Description**
Mice homozygous for the diabetes 3J spontaneous mutation (Lepr<sup>db-3J</sup>) become identifiably obese around three to four weeks of age. Elevations of plasma insulin begin at 10 to 14 days and of blood sugar at four to eight weeks. Homozygous mutant mice are polyphagic, polydipsic, and polyuric. The course of the disease is markedly influenced by genetic background. Homozygous mutant mice on the 129P3/J background exhibit severe obesity but the diabetes phenotype is much reduced.

**Control Suggestions**

**Genetics**

**Lepr<sup>db-3J</sup>**

**Disease/Phenotype**
Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols
Genotyping resources and troubleshooting

Citation

When using the diabetes 2 Jackson mouse strain in a publication, please cite the originating article(s) and include JAX stock #000709 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.

<table>
<thead>
<tr>
<th>Domestic</th>
<th>International</th>
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<tr>
<td>Pricing effective for USA, Canada and Mexico shipping destinations</td>
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<tr>
<th>Cryorecovery - Domestic Pricing</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Cryo Recovery with Progeny Testing</td>
<td>Heterozygous or Wild-type for Lepr&lt;db-3J&gt;</td>
<td>$2,595.00</td>
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</tbody>
</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
strains. 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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Terms of Use
General Terms and Conditions

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

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**Related Strains**

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<td>By Allele</td>
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<td>By Gene</td>
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<td>By Collection</td>
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All Related Strains
ELLSWORTH FACILITY OFFICIALLY OPEN AND OPERATIONAL

Shipments have begun at our new facility, allowing increased access to JAX mouse models.

Leading the search for

TOMORROW'S CURES

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