NOD.Cg-Prkdc<sup>scid</sup> I2rg<sup>tm1Wji</sup> Tg(lns2-HBEGF)6832Ugfm/SzJ

Stock No: 027976 | NSG RIP-DTR

Congenic, Spontaneous Mutation, Targeted Mutation, Transgenic

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:** NSG RIP-DTR, NSG RIP DTR  
Diphtheria toxin treatment ablates all pancreatic beta cells in these NSG RIP-DTR mice. This strain is useful for engraftment of human pancreatic islets, and studies related to islet transplantation.

### Donating Investigator

Dr. Leonard D. Shultz, The Jackson Laboratory

### Genetic Information

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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</thead>
<tbody>
<tr>
<td><strong>Prkdc&lt;sup&gt;scid&lt;/sup&gt;</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Allele Type</strong></td>
<td><strong>Gene Symbol</strong></td>
</tr>
<tr>
<td>Spontaneous</td>
<td>Prkdc</td>
</tr>
<tr>
<td><strong>Il2rg&lt;sup&gt;tm1Wjl&lt;/sup&gt;</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Allele Type</strong></td>
<td><strong>Gene Symbol</strong></td>
</tr>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Il2rg</td>
</tr>
<tr>
<td><strong>Tg(Ins2-HBEGF)6832Ugf</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Allele Type</strong></td>
<td></td>
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<tr>
<td>Transgenic (Inserted expressed sequence, Humanized sequence)</td>
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</tbody>
</table>
Internal/Organ Research
Immunology, Inflammation and Autoimmunity Research
Virology Research
Diabetes and Obesity Research
Research Tools
Cancer Research

Details

Detailed Description
These NSG RIP-DTR mice express the human diphtheria toxin receptor (HBEGF) driven by the rat insulin 2 promoter, RIP (Ins2). These mutant mice are deficient in mature lymphocytes and NK cells, survive beyond 16 months of age, and even after sublethal irradiation resist lymphoma development. Diphtheria toxin treatment ablates all pancreatic beta cells and induces hypoglycemia, while avoiding the generalized toxicity of chemically-induced destruction of beta cells.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Prkdc<sup>scid</sup>

Il2rg<sup>(m<sup>1</sup>Wj)</sup>

Tg(Ins2-HBEGF)<sup>6832Ugfm</sup>
Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols
End Point Analysis: Prkdc<sup>scid</sup> End Point Probe: ll2rg<sup>tm1Wjl-PROBE</sup> MELT: Tg(ins2-HBEGF)6832Ugf
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, females that are homozygous for the Prkdc<sup>scid</sup> and ll2rg<sup>tm1Wjl</sup> alleles and the RIP-DTR transgene are bred to males that are homozygous for Prkdc<sup>scid</sup> and RIP-DTR transgene, and hemizygous for ll2rg<sup>tm1Wjl</sup> (ll2rg is an X-linked gene). Additional Breeding and Husbandry Support

Mating System
Homozygous Prkdcscid, Homozygous ll2rgtm1Wjl, Homozygous Tg(ins2-HBEGF)6832Ugf x Homozygous Prkdcscid, Hemizygous ll2rgtm1Wjl, Homozygous Tg(ins2-HBEGF)6832Ugf

Citation
When using the NKG RIP-DTR mouse strain in a publication, please cite the originating article(s) and include JAX stock #027976 in your Materials and Methods section.
Facility Barrier Level Descriptions
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.

Domestic International
Pricing effective for USA, Canada and Mexico shipping destinations
Cryorecovery - Domestic Not-For-Profit & Academic Pricing

<table>
<thead>
<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Hemizygous for Tg(Ins2-HBEGF)6832Ugf1, homozygous females and hemizygous males for IL2rg&lt;tm1Wj&gt; and homozygous for Prkdc&lt;scid&gt;</td>
<td>$2,854.50</td>
</tr>
</tbody>
</table>

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. **Please check genotypes which will be recovered.** While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. **Animals are typically ready to ship in 11-14 weeks.** If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. 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.

### Related Products and Services

<table>
<thead>
<tr>
<th>Product</th>
<th>Price</th>
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<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
<td>$2,595.00 per straw or vial</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.

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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**

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**Licensing Information**

Phone: 207-288-6470

Email: TechTran@jax.org

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