Overview

Also Known As: NOD.ALR-DR2, NOD-Idd16a

These mice carry the ALR H2 complex and insulin dependent diabetes susceptibility locus 16, Idd16a from ALR/LtJ and exhibit suppression of diabetes incidence.

Donating Investigator

Dr. Edward Leiter, The Jackson Laboratory

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>001289 NOD/ShiLt</td>
<td></td>
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</tbody>
</table>

**Idd16.1**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>QTL</td>
<td><em>Idd16.1</em></td>
<td>insulin dependent diabetes susceptibility 16.1</td>
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</tbody>
</table>

**Marker(s)**

<table>
<thead>
<tr>
<th>Marker Symbol</th>
<th>Marker Name</th>
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<tbody>
<tr>
<td><em>Idd1</em></td>
<td>insulin dependent diabetes susceptibility 1</td>
</tr>
<tr>
<td><em>D17Mit16</em></td>
<td>DNA segment, Chr 17, Massachusetts Institute of Technology 16</td>
</tr>
<tr>
<td><em>H2-D</em></td>
<td>histocompatibility 2, D region</td>
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RESEARCH APPLICATIONS

Research Tools
This allelic congenic strain commonly called D.R2, carries a defined segment of Chr 17 that includes the ALR H2\textsuperscript{ALR} complex and insulin dependent diabetes susceptibility locus 16, lld16a\textsuperscript{ALR}. At 35 weeks of age diabetes incidence in this NOD ALR strain is significantly suppressed with 50% of the females and almost 15% the males diabetic as compared to NOD/ShiLt in which 100% of the females and nearly 70% of the males were diabetic. Similar to Stock No. 004309 pancreatic histological examination of pre-diabetic 8-week old males show lower mean insulitis scores than controls.

This strain is useful for identifying candidate genes and dissecting the role of lld16a in autoimmune diabetes.
H2-D

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols
Genotyping resources and troubleshooting

Appearance
albino, pink eyed
Related Genotype: A/A Tyr<sup>c</sup> / Tyr<sup>c</sup>

Citation
When using the NOD-Idd16<sup>ALR</sup> mouse strain in a publication, please cite the originating article(s) and include JAX stock #004308 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.
**Domestic vs. International Pricing Effective for USA, Canada and Mexico Shipping Destinations**

**Cryorecovery - Domestic Pricing**

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<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Homozygous, 1 pair minimum</td>
<td>$2,854.50</td>
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</table>

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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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*General Terms and Conditions*

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Email: TechTran@jax.org

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains
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