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

Donating Investigator

Marcia McDuffie, Univ. of Virginia Dept. of Medicine

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**GENETIC OVERVIEW**

**Genetic Background**

001976 NOD/ShiLtJ

**Marker(s)**

<table>
<thead>
<tr>
<th>Marker Symbol</th>
<th>Marker Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Csf2</td>
<td>colony stimulating factor 2 (granulocyte-macrophage)</td>
</tr>
<tr>
<td>D11Mit314</td>
<td>DNA Segment, Chr 11, Massachusetts Institute of Technology 314</td>
</tr>
</tbody>
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**RESEARCH APPLICATIONS**

- Immunology, Inflammation and Autoimmunity Research
- Research Tools
- Diabetes and Obesity Research
This NOD congenic strain, commonly referred to as NOD.Lc11b or DR3b, carries a small C57L/J derived congenic interval on Chromosome 11, *D11Mit314* (51Mb) through *Csf2* (54Mb) that encodes a cluster of cytokine genes including candidate gene *Csf2* (*Idd4.3*) and excludes all of the telomeric regions downstream of *Csf2*.*Stat5a, Stat5b, Stat3*, are of NOD origin. *Csf2* production by macrophages is significantly lower that of NOD macrophages. *Stat5* phosphorylation levels of NOD.Lc11b macrophages is significantly lower than NOD macrophages (Litherland et al, 2005). Diabetes incidence in females is reported to be about 30% compared to 70% in NOD control mice (Davoodi-Semiromi et al, 2007).

This strain is useful to further study the role of *Csf2* and to identify other *Idd4* candidate genes and their role in autoimmune diabetes.

### Development

### Control Suggestions

### Selected References

### Genetics

#### Csf2

#### D11Mit314

### Disease/Phenotype

### Disease Terms
Genotyping Protocols
Genotyping resources and troubleshooting

Appearance
albino
Related Genotype: A/A Tyr^c/Tyr^c
Citation
When using the NOD.Lc11b and DR3b mouse strain in a publication, please cite the originating article(s) and include JAX stock #008055 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

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, 1 pair minimum</td>
<td>$2,854.50</td>
</tr>
</tbody>
</table>
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Related Strains

- All
- By Allele
- By Gene
- By Collection

All Related Strains