Overview

Also Known As: Nod2 KO

These Nod2 knock-out mice are susceptible to oral bacterial challenge and may be useful in studies of Crohn's disease and other inflammatory bowel diseases.

Donating Investigator
GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>?+N9FS</td>
<td>(2018-08-08 00:00:00)</td>
</tr>
</tbody>
</table>

**Nod2**\(^{tm1Flv}\)

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Nod2</td>
<td>nucleotide-binding oligomerization domain containing 2</td>
</tr>
</tbody>
</table>

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research
Research Tools
Cell Biology Research
Hematological Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

$231.00 Domestic price for female

VIEW PRICE LIST

Details

**Detailed Description**

Homozygous mice are viable and fertile with normal lymphoid and myeloid cellularity and no intestinal inflammation up to 6 months of age. Homozygotes do not express the targeted gene in spleen or intestinal crypts. Null mice, as well as antigen presenting cells derived from them, lack the protective immunity (IgG1, interleukin-6, and NF-kappaB-related responses) normally afforded by endogenous protein recognition of its ligand, bacterial muramyl dipeptide (MDP). Mice homozygous for the mutation have increased susceptibility to oral (intragastric) bacterial challenge and diminished cryptdins. This mouse may be useful in studies of Crohn’s disease and other inflammatory bowel diseases, innate immunity, signal transduction, and bacterial susceptibility.

Development
Genotyping Protocols
Standard PCR: Nod2^tm1Fv
Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Breeding Considerations
When maintaining a live colony, these mice are bred as homozygotes.
Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Citation
When using the Nod2 KO mouse strain in a publication, please cite the originating article(s) and include JAX stock #005763 in your Materials and Methods section.

Animal Health Reports
AX10 (Standard)

Pricing & Availability
2–4 week lead time for up to 4 mice at 4–8 weeks old and age requests are not accepted

### Domestic

**Pricing effective for USA, Canada and Mexico shipping destinations**

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approx 4–8 weeks</td>
<td>Female</td>
<td>Homozygous for Nod2(^{m1Flv})</td>
<td>$231.00</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Nod2(^{m1Flv})</td>
<td>$231.00</td>
</tr>
</tbody>
</table>

### Related Products and Services

- Frozen Mouse Embryo: $2,595.00 per straw or vial

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### 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

**Terms of Use**

*General Terms and Conditions*

Additional Use Restrictions Apply

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**Licensing Information**

Phone: 207-288-6470

Email: TechTran@jax.org

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains
Leading the search for
TOMORROW'S CURES

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