This congenic strain has the MHC \( H2 \) haplotype from the C57BL/10SnJ strain with mice exhibiting some but not all of the immune dysfunctions of NOD/LtJ mice. These mice serve as a diabetes-resistant control for comparison to the NOD/LtJ strain (Stock #001976) and are useful in dissecting the role of MHC versus non-MHC genes in producing aberrant immunophenotypes.

### Genetic Overview

**Genetic Background**
- **Generation**: N12+N1F10
- **Date**: 2020-04-22 00:00:00

**\( H2^b \)**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
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<tr>
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### Research Applications

- Diabetes and Obesity Research
- Immunology, Inflammation and Autoimmunity Research

### Base Price

Starting at:
This strain was developed to determine the effect of the non-MHC diabetogenic genes on the development of autoimmunity when compared to the NOD/LtJ strain (Stock #001976), and mice exhibit some but not all of the immune dysfunctions of NOD/LtJ mice. The NOD.H-2b strain does not develop insulitis, cyclophosphamide-induced diabetes, or spontaneous diabetes, but does develop extensive lymphocytic infiltrates in the pancreas and the submandibular glands.
Genotyping Protocols
End Point Analysis: H2rs253049200-Alt 1-EP
Sanger sequencing: H2rs253049200

Genotyping resources and troubleshooting

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

Mating System
Homozygote x Homozygote

Appearance
albino

Related Genotype: A/A p/p Tyr²/Tyr²

Citation
When using the NOD.B10Sn-H2b/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #002591 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

 AX10 (Standard)

Pricing & Availability

Live mice available in varying quantities. Ask Customer Service for details.

Domestic
Pricing effective for USA, Canada and Mexico shipping destinations

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Terms Of Use

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

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<tr>
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