

B6.NOD-(Csf2-D11Mit42) (D17Mit21-D17Mit10)/J

Stock No: 003068 | B6.NOD Idd1,4

 Congenic

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(H2) and the insulin dependent diabetes susceptibility locus 1 (*Idd1*), and the other segment from Chromosome 11 contains the insulin dependent diabetes susceptibility locus 4 (*Idd4*).

Donating Investigator

Wakeland

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GENETIC OVERVIEW

Genetic Background

Generation

Idd1^{NOD/Uf}

Allele Type

QTL

Gene Symbol

Idd1

Gene Name

insulin dependent diabetes susceptibility 1

H2^{g7}

Allele Type

Not Applicable

Gene Symbol

H2

Gene Name

histocompatibility-2, MHC

Idd4^{NOD}

Allele Type

QTL

Gene Symbol

Idd4

Gene Name

insulin dependent diabetes susceptibility 4

Marker(s)

Marker Symbol

Csf2

Marker Name

colony stimulating factor 2 (granulocyte-macrophage)

<i>D11Mit42</i>	DNA segment, Chr 11, Massachusetts Institute of Technology 42
<i>D17Mit10</i>	DNA segment, Chr 17, Massachusetts Institute of Technology 10
<i>D17Mit21</i>	DNA segment, Chr 17, Massachusetts Institute of Technology 21

V I E W G E N E T I C S

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research
Diabetes and Obesity Research

V I E W A L L R E S E A R C H A P P L I C A T I O N S

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W P R I C E L I S T

Details

Detailed Description

This strain is doubly congenic for a 19 cM segment of Chr 17 (called c17 in the reference below) extending from *D17Mit21* through *D17Mit10* and including the major histocompatibility complex, *H2*, and the insulin dependent diabetes susceptibility locus *Idd1* and for a 42 cM segment of Chr 11 (called c11 by Yui *et al.*) extending from *Csf2* (colony stimulating factor 2 (granulocyte-macrophage)) through *D11Mit42* and including the insulin dependent diabetes susceptibility locus *Idd4*. No information has been published for this double congenic strain. However, upon histologic examination of the pancreas, a significantly higher percentage of B6.NOD-(*D17Mit21-D17Mit10*) singly congenic mice than of C57BL/6J control mice were found to exhibit periinsulinitis, and more extensive mononuclear cell infiltrates were observed in the pancreata of these mice. The pancreatic infiltrates were not associated specifically with the islets. Insulinitis (intraislet infiltration) was extremely rare, and no more than one affected islet was observed in a single animal, even in cases where extensive perivascular/periductal infiltrates existed. Incidence and severity of periinsulinitis in singly congenic B6.NOD-(*Csf2-D11Mit42*) mice were similar to those of controls. Of note, whereas female NOD mice are more susceptible than males to both insulinitis and diabetes, male and female mice of the singly congenic B6.NOD-(*D17Mit21-D17Mit10*) strain exhibited similar incidence of pancreatic infiltration.

[+ Development](#)

[+ Control Suggestions](#)

[- Genetics](#)

[+ *Idd1*^{NOD/Uf}](#)

[+ *H2*^{g7}](#)

[+ *Idd4*^{NOD}](#)

[+ *Csf2*](#)

[+ *D11Mit42*](#)

[+ *D17Mit10*](#)

[+ *D17Mit21*](#)

[- Disease/Phenotype](#)

[+ Disease Terms](#)

[+ Research Areas By Phenotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

[- Technical Support](#)

C O N T A C T T E C H N I C A L S U P P O R T

Genotyping Protocols
[Genotyping resources and troubleshooting](#)

Appearance

black

Related Genotype: *a/a*

Citation

When using the B6.NOD Idd1,4 mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #003068 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

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