

NOD.B6(PL)-*Idd3*^{C57BL/6}/MrkTacJ

Stock No: **007934**

 Congenic

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

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A/J, or CAST/EiJ are diabetes susceptible, while the congenic stocks containing the *Idd3* region derived from C57BL/6 or CZECH/EiJ are diabetes resistant and produce more IL2 mRNA than the diabetes susceptible strains. These strains have been used to positionally clone *Idd3* on Chromosome 3 and continue to be valued to study the biological effects of variation of genes within the *Idd3* region and for studying long-range chromosome remodeling.

Donating Investigator

Linda Wicker, University of Cambridge, UK

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GENETIC OVERVIEW

Genetic Background

Generation

Idd3^{C57BL/6}

Alele Type

Gene Symbol

Gene Name

QTL

Idd3

insulin dependent diabetes susceptibility 3

VIEW GENETICS

RESEARCH APPLICATIONS

Diabetes and Obesity Research

Immunology, Inflammation and Autoimmunity Research

VIEW ALL RESEARCH APPLICATIONS

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 NOD congenic strain, commonly referred to as NOD.B6-*Idd3*, commonly referred to as NOD.B6-*Idd3*R450, is carrying Chromosome 3 alleles, rs3022959 through rs3140619, derived from strain C57BL/6 including the insulin dependent diabetes susceptibility 3 loci (*Idd3*). This NOD.B6 congenic strain is diabetes resistant, with approximately 10% of the females becoming diabetic by 250 days of age. Activated and non-activated thymocytes and splenocytes of this T1D protected stock produce more *Il2* mRNA than T1D susceptible strains (Stock No's. [007930](#), [007931](#), and [007932](#)). This congenic strain, one of a set of 5 strains (Stock No's. [007930](#), [007931](#), [007932](#), and [007933](#)), has been useful to positionally clone *Idd3*, to study the biological effects of variation of genes within the *Idd3* region, specifically the *Il2* gene and continues to be valued for studying long-range chromosome remodeling.

Development

Control Suggestions

Selected References

Genetics

Idd3^{C57BL/6}

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

Albino

Related Genotype: *A/A Tyr^c / Tyr^c*

Citation

When using the NOD.B6(PL)-*Idd3*^{C57BL/6}/MrkTacJ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #007934 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 | International

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Homozygous for <i>Idd3</i> <C57BL/6>, 1 pair minimum	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	NOD.B6(PL)- <i>Idd3</i> <C57BL/6>/MrkTacJ Frozen Embryos	\$2595.00
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