

NOD.ALR-(D17Mit16-H2-D)/LtJ

Stock No: **004308** | NOD-Idd16a^{ALR}

◆ Congenic, Major Histocompatibility Congenic

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and exhibit suppression of diabetes incidence.

Donating Investigator

Dr. Edward Leiter, The Jackson Laboratory

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GENETIC OVERVIEW

Genetic Background

001289 NOD/ShiLt

Generation

Idd16.1^{ALR/LtJ}

Alele Type

QTL

Gene Symbol

Idd16.1

Gene Name

insulin dependent diabetes susceptibility 16.1

Marker(s)

Marker Symbol

Idd1

D17Mit16

H2-D

Marker Name

insulin dependent diabetes susceptibility 1

DNA segment, Chr 17, Massachusetts Institute of Technology 16

histocompatibility 2, D region

VIEW GENETICS

RESEARCH APPLICATIONS

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BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

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Details

Detailed Description

This allelic congenic strain commonly called D.R2, carries a defined segment of Chr 17 that includes the ALR $H2^{g^x}$ complex and insulin dependent diabetes susceptibility locus 16, $Idd16a^{ALR}$. At 35 weeks of age diabetes incidence in this NOD.ALR strain is significantly suppressed with 50% of the females and almost 15% the males diabetic as compared to NOD/ShiLt in which 100% of the females and nearly 70% of the males were diabetic. Similar to Stock No. 004309 pancreatic histological examination of pre-diabetic 8-week old males show lower mean insulinitis scores than controls.

This strain is useful for identifying candidate genes and dissecting the role of *Idd16a* in autoimmune diabetes.

Development

Control Suggestions

Selected References

Genetics

$Idd16.1^{ALR/LtJ}$

Idd1

+ [D17Mit16](#)

+ [H2-D](#)

- 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, pink eyed

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

Citation

When using the NOD-Idd16a^{ALR} mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #004308 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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Email: TechTran@jax.org

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