

NOD.B10Sn-Idd5.1 ^{C57BL/10SnJ} /R46MrkTacJ

Stock No: **012391** | NOD.B10-Idd5.1, R2193

 Congenic

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012394, and 012395 that resulted by crossing segments of C57BL/10SnJ derived chromosome 1 into the NOD/MrkTac background. These strains may be useful to better understand the variation of diabetic resistance conferred by *Idd* loci; for studying long-range chromosome remodeling and may be useful for identifying diabetes susceptible candidate genes within the *Idd5* subloci.

Donating Investigator

Linda Wicker, University of Cambridge, UK

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GENETIC OVERVIEW

Genetic Background **Generation**

001976 NOD/ShiLtJ

Idd5.1^{C57BL/10SnJ}

Alele Type

Gene Symbol

Gene Name

QTL

Idd5.1

insulin dependent diabetes susceptibility 5.1

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research
Diabetes and Obesity 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.B10-*Idd5R46*, line 2193, carries a diabetes resistant C57BL/10SnJ (Stock No. [000666](#)) chromosome 1 segment. The B10 introgressed segment is defined within *D1Mit74* (57.6Mb) through *AL671560* (SNP marker at approximately 62Mb) and includes the insulin dependent diabetes susceptibility (*Idd5.1*; including candidate gene *Ctla4*).

Diabetes incidence is modest but significant among 7 month old female mice of this strain, which is reported at 62%, compared with more than 80% in NOD controls (Hunter, *et al.* 2007).

This strain may be useful to understand the epistatic interactions of *Idd5.1* alleles with other *Idd* loci.

Development

Control Suggestions

Selected References

Genetics

Idd5.1^{C57BL/10SnJ}

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

Standard PCR:[D1Mit74](#)

Standard PCR:[D1Mit320](#)

[Genotyping resources and troubleshooting](#)

Citation

When using the NOD.B10-Idd5.1, R2193 mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #012391 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](#)

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Cryo
Recovery

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Cryo Recovery	Heterozygous for -Idd5.1<C57BL/10SnJ>	\$2,854.50

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Frozen Mouse Embryo

NOD.B10Sn-Idd5.1<C57BL/10SnJ>/R46MrkTacJ Frozen Embryos

\$2595.00

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