

NOD.FVB-Tg(Igh-6-Cd80)1Gjf/JbsJ

Stock No: 007769

 Congenic, Transgenic

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

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and is commonly referred to as NOD.B7-1B Tg. The donating investigator reports that this diabetes resistant strain expresses high levels of the transgene on B cells, but not on T-cells. Circulating, spleenic, and bone marrow B cells are significantly reduced. This strain may be used to study autoreactive T cell activation, B cell deletion and the role of B7 co stimulatory molecules in autoimmunity, specifically Type 1 Diabetes.

Donating Investigator

Dr. Jeffrey A. Bluestone, University of California, San Francisco

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(Igh-6-Cd80)1Gjf

Alele Type

Transgenic (Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research

Research Tools

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

Transgenic mice are viable, fertile, normal in size, normoglycemic and do not display any gross physical or behavioral abnormalities. High levels of the transgene are expressed on B cells, but not on T cells. At 30 weeks of age transgenic mice are diabetes resistant and insulinitis was significantly reduced when compared with wildtype NOD controls. When compared to wildtype NOD controls, the circulating B cells in congenic NOD transgenic mice is 2-3 fold lower in 2 week old mice and 10 fold lower in 5-6 week old mice and persists throughout life. Significantly reduced percentage of B cells were found in the spleen and bone marrow. Analysis of bone marrow shows the more mature B cell subsets (B220+, IgM+) are affected. Elisa tests indicate reduced circulating levels of all Ig types, *Ighm* (formerly *Igh-6*), *Igh-3* (IgG2b), and *Ighg1* (IgG1) in the serum of transgenic mice. MHC class II expression of splenic B cells was significantly increased by more than 2 fold, indicating features of an activated B cell phenotype, in NOD-*H2^{g7}* transgenic mice when compared to NOD wildtype and NOD-*H2^b* transgenic mice.

In 2008, a spontaneous mutation to dystonia (*Dst*) was observed in this colony and may be segregating in cryopreserved stock.

This strain may be used to study autoreactive T cell activation and B cell deletion and the role of B7 costimulatory molecules in autoimmunity, specifically Type 1 Diabetes.

Development

Expression Data

Control Suggestions

Selected References

Genetics

[+ Tg\(Igh-6-Cd80\)1Gjf](#)

[- 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.FVB-Tg(Igh-6-Cd80)1Gjf/JbsJ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #007769 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](#)



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Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Hemizygous or non-carrier for Tg(Igh-6-Cd80)1Gjf/JbsJ	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	NOD.FVB-Tg(Igh-6-Cd80)1Gjf/JbsJ Frozen Embryo	\$2595.00
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TERMS OF USE

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ADDITIONAL USE RESTRICTIONS APPLY

[Use of MICE by companies or for-profit entities requires a license prior to shipping.](#)

LICENSING INFORMATION

Related Strains

- All
- By Allele
- By Gene
- By Collection




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