

NOD.Caj.Cg-Ighm^{tm1Cgn} Tg(Igh-VB1-8/Igh-6m)1Mjsk/FswJ

Stock No: 005306 | NOD.mlgM

Coisogenic, Congenic, Targeted Mutation, Transgenic

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

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Donating Investigator

F. Susan Wong, Cardiff University School of Medicine

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GENETIC OVERVIEW

Genetic Background

Generation

Ighm^{tm1Cgn}

Alele Type

Targeted (Null/Knockout)

Gene Symbol

Ighm

Gene Name

immunoglobulin heavy constant mu

Tg(Igh-VB1-8/Igh-6m)1Mjsk

Alele Type

Transgenic (Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Diabetes and Obesity Research

Immunology, Inflammation and Autoimmunity Research

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

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Details

Detailed Description

Transgenic mice carrying the *Ighm*^{tm1Cgn} allele are viable, fertile, and normal in size and restores the B220+ B-cells to normal. The number of B-cells is normal and the ratio of CD4 to CD8 is normal. Although only a fraction of the transgenic mice have an increased amount of insulinitis, it is more severe, especially in males. Diabetes incidence is partially restored in NOD.Caj.Cg-*Ighm*^{tm1Cgn} Tg(Igh-VB1-8/Igh-6m)1MjSk/Fsw with approximately, 11% females and 0% males becoming diabetic by 50 weeks of age compared to approximately 2% *Ighm*^{tm1Cgn} female controls and 0% *Ighm*^{tm1Cgn} male controls by 50 weeks of age or 90% female NOD controls and 70% male NOD controls by 30 weeks of age. T-cell depleted spleen cells from *Ighm*^{tm1Cgn} Tg(Igh-VB1-8/Igh-6m)1MjSk mice stimulated with lipopolysaccharide (LPS) respond normally. NOD.Caj.Cg-*Ighm*^{tm1Cgn} Tg(Igh-VB1-8/Igh-6m)2MjSk/Fsw like NOD.129S2(B6)-*Ighm*^{tm1Cgn} generate low T-cell responses to GAD and insulin.

This model is useful for separating the role of B-cells in antigen presentation from antibody production involved in diabetes development.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Ighm^{tm1Cgn}

[+ Tg\(Igh-VB1-8/Igh-6m\)1Mjsk](#)

[- 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:[Ighm](#)

Standard PCR:[Ighm](#)

[Genotyping resources and troubleshooting](#)

Appearance

pink-eye, albino

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

Citation

When using the NOD.mlgM mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #005306 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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Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Homozygous for Igh-6<tm1Cgn> , Hemizygous or Homozygous for Tg(Igh-VB1-8/Igh-6m)1Mjsk, Tg/?	\$2,854.50

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The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. **Therefore, we cannot guarantee a strain's phenotype will meet all expectations.** To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project. We do not guarantee [breeding performance](#) and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

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