The Jackson Laboratory

NOD.Cg-*Tnfrsf1b* ^{tm1Imx} *Tnfrsf1a* ^{tm1Imx}/J

Stock No: **024314**

Congenic, Targeted Mutation

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

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applications in studies of type 1 diabetes.

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GENETIC OVERVIEW

Genetic Background	Generation

Tnfrsf1a^{tm1Imx}

Allele Type	Gene Symbol	Gene Name
Targeted (Null/Knockout)	*Tnfrsf1a*	tumor necrosis factor receptor superfamily, member 1a

Tnfrsf1b^{tm1Imx}

Allele Type	Gene Symbol	Gene Name
Targeted (Null/Knockout)	*Tnfrsf1b*	tumor necrosis factor receptor superfamily, member 1b

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research
Apoptosis Research
Cancer Research
Diabetes and Obesity Research

VIEW ALL RESEARCH APPLICATIO

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

Mice that are homozygous for both targeted mutations are viable, fertile and completely resistant to spontaneous type 1 diabetes (in mice observed up to 30 weeks). When activated diabetogenic CD4+ T cells from NOD.Cg-Tg(TcraBDC2.5,TcrbBDC2.5)1Doi/DoiJ (Stock No. 004460)

are transferred to these NOD.TNFR1KO/TNFR2KO double mutant mice, diabetes development is delayed. Transfer of activated G9C8 clone cells (TCR from a CD8+ T cell clone specific for an insulin-derived peptide ($InsB^{15-23}$) bound to K^d MHC class I molecule) to the NOD.TNFR1KO/TNFR2KO mice, results in delayed diabetes development and only 75% of the mice developing diabetes.

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. This is the case for the strain above. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.

Development

Control Suggestions

Selected References

Genetics

Tnfrsf1a^{tm1Imx}

Tnfrsf1b^{tm1Imx}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR:Tnfrsf1a-Alternate 3
Standard PCR:Tnfrsf1b MCA
Genotyping resources and troubleshooting

Breeding Considerations

When maintaining a live colony, these mice can be bred homozygous for both alleles.

Additional Breeding and Husbandry Support

Citation

When using the NOD.Cg-*Tnfrsf1b*^{tm1Imx} *Tnfrsf1a*^{tm1Imx}/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #024314 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	Heterozygous for Tnfrsf1b<tm1Imx> , Heterozygous for Tnfrsf1a<tm1Imx>	$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	NOD.Cg-Tnfrsf1b<tm1Imx> Tnfrsf1a<tm1Imx>/J	$2595.00

PAYMENT TERMS AND CONDITIONS

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

THE JACKSON LABORATORY'S GENOTYPE PROMISE

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.

Terms Of Use

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General Terms and Conditions

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LICENSING INFORMATION

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Email: TechTran@jax.org

Related Strains

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TOMORROW'S CURES

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Yes No