The Jackson Laboratory

NOD-Tg(Ins2*Y16A)3Ell/GseJ

Stock No: **005523** | NOD.Tg B:16 alanine, line F (high)

Coisogenic, Transgenic

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

PLACE ORDER

Email Download PDF Help

Donating Investigator

George Eisenbarth, U of Colorado

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GENETIC OVERVIEW

Genetic Background **Generation**

Tg(Ins2*Y16A)3Ell

Allele Type

Transgenic (Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research
Research Tools
Diabetes and Obesity Research

VIEW ALL RESEARCH APPLICATION

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

Expression has been reported in the pancreatic islets and thymus of NOD mice carrying the Tg(Ins2*Y16A)3Ell mutation. Approximately 15% of line F female transgenic mice become diabetic in the presence of native insulin genes by 35 weeks of age. NOD female transgenic mice lacking both *Ins1* and *Ins2* fail to produce insulin autoantibodies, and there is no diabetes or insulitis at 26 weeks of age, but sialitis is present. In contrast, transgenic mice in the presence of *Ins1* and lacking *Ins2* develop diabetes in 75% of the animals by 25 weeks of age (Nakayama et al, 2004, 2005).

NOD-Tg(Ins2*Y16A)3Ell/GseJ is useful to study insulin-reactive autoimmunity.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Ins2*Y16A)3Ell

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols
Genotyping resources and troubleshooting

Appearance
albino, pink eyed
Related Genotype: *A/A Tyr^{c} /Tyr^{c}*

Citation
When using the NOD.Tg B:16 alanine, line F (high) mouse strain in a publication, please cite the originating article(s) and include JAX stock #005523 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 **Internatic**

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC NOT-FOR-PROFIT & ACADEMIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Hemizygous or Non carrier for Tg(Ins2*Y16A)3Ell	$2,854.50

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

TERMS OF USE

General Terms and Conditions

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ADDITIONAL USE RESTRICTIONS APPLY

NOT AVAILABLE TO COMPANIES OR FOR COMMERCIA
Use of MICE only available to non-profit entities.

LICENSING INFORMATION

Phone: 207-288-6470
Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection