

NOD.Cg-Tg(Ins2-Cxcl13)1Cys/JbsJ

Stock No: 006154 | NOD.RIP-BCL

 Congenic, 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](#)

Expression of the transgene in these mice leads to development of lymph node-like structures in pancreatic islets that contain B and T cell zones, high endothelial venules, stromal cells, and the chemokine SLC.

Donating Investigator

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

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

001289 NOD/ShiLt

Tg(Ins2-Cxcl13)1Cys

Alele Type

Transgenic (Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research
Diabetes and Obesity Research
Developmental Biology 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

Ins2-Cxcl13 (commonly referred to as BLC) transgenic mice are viable, fertile, normal in size, and do not display any gross physical or behavioral abnormalities. On the B6.D2 background pancreatic islet structure is disrupted, strongly resembling severe insulinitis. However, these mice have normal blood glucose levels, no decrease in B-cells and do not become overtly diabetic. Immunohistochemistry indicates Cxcl13 expression is significantly higher in the pancreatic islets than the follicular stromal cells of the lymph nodes while no expression was observed in the liver or kidney. Histopathology indicates 50% of the pancreatic islets are infiltrated with small nucleated cells. Immunohistochemistry and FACS analysis reveals that 90% of the infiltrating cells are B220+ naive B lymphocytes. In addition, $CD4^+$ and $CD8^+$ cells were present. Transgenic expression leads to the development of lymph node like structures that contain B and T cell zones, high endothelial venules, stromal cells and the chemokine *Ccl21* (*SLC*), Luther SA et al; Immunity 2000.

On the NOD congenic background Tg(Ins2-Cxcl13) expression in the pancreas leads to accelerated diabetes (Donating investigator unpublished communication).

This strain is useful to the study of B cells and chemokines in the development of diabetes.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Ins2-Cxcl13)1Cys

– 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:[Tg\(Ins2-Cxcl13\)1Cys](#)

[Genotyping resources and troubleshooting](#)

Mating System

Hemizygote x +/+ sibling

Appearance

albino, pink eyed

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

Citation

When using the NOD.RIP-BCL mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #006154 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.

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Hemizygous or Non carrier for Tg(Ins2-Cxcl13)1Cys	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	NOD.Cg-Tg(Ins2-Cxcl13)1Cys/JbsJ Frozen Embryos	\$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

TERMS OF USE

[General Terms and Conditions](#)

QUESTIONS ABOUT TERMS OF USE

ADDITIONAL USE RESTRICTIONS APPLY

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

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



DO YOU NEED BALB/c MICE?

Rely on JAX to provide the models you need, when you need them.

LEARN MORE



CONTACT



DONATE



SUBSCRIBE

JAX HOME CAREERS LEGAL INFORMATION

RESEARCH CENTERS MOUSE GENOME INFORMATICS

MOUSE PHENOME DATABASE

Leading the search for

TOMORROW'S CURES



©2021 THE JACKSON LABORATORY

Choose other country or region



^ E E E D B

Did you find what you were looking for?

Yes No