The Jackson Laboratory

NOD/ShiLt-Tg(Cd4-DsRed)4Lt/J

Stock No: **005328** | NOD.CD4-DsRed Line 4

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

Dr. Edward Leiter, The Jackson Laboratory

READ MORE +

GENETIC OVERVIEW

Genetic Background

001976 NOD/ShiLtJ

Generation

Tg(Cd4-DsRed)4Lt

Allele Type

Transgenic (Reporter)

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

The donating investigator reports that hemizygous transgenic mice are viable, fertile and normal in size. FACS analysis of splenic lymphocytes shows transgenic expression in 36% of $CD4^+$ and 6% of $CD8^+$ T cells and minimal expression (background levels) in B cells and macrophages. When compared to wild-type NOD/ShiLt mice, the diabetes incidence is lower (50%) and diabetes onset is delayed. Adoptive transfer experiments with splenocytes and bone marrow from hemizygous CD4-DsRed transgenic mice does not confer diabetes protection on NOD inbred mice, suggesting that the agent of protection is not dependent on hematopoietic cells. No homozygous transgenic mice have been identified in litters produced from hemizygote intercrosses, suggesting that homozygotes are not viable.

This strain is useful for tracking resting and activated T cells *in vivo* and *in vitro*.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Cd4-DsRed)4Lt

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

QPCR:Generic DsRed
Standard PCR:Tg(DsRed)
Standard PCR:Generic DsRed
Probe:Generic DsRed Probe
Genotyping resources and troubleshooting

Appearance

albino
Related Genotype: *A/A Tyr^{c} /Tyr^{c}*

Citation

When using the NOD.CD4-DsRed Line 4 mouse strain in a publication, please cite the originating article(s) and include JAX stock #005328 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 PRICING		
SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Hemizygous or Non carrier for Tg(Cd4-DsRed)4Lt	$2,854.50

RELATED PRODUCTS AND SERVICES		
Frozen Mouse Embryo	NOD/ShiLt-Tg(Cd4-DsRed)4Lt/J Frozen Embryo	$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

LICENSING INFORMATION

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

Related Strains

All

By Allele

By Gene

By Collection

Choose other country or region

Did you find what you were looking for?

Yes No