NOD/ShiLtDvs-Tg(IgkH280)934Dvs/J

Stock No: **028931** | NOD-PerL

Coisogenic, Transgenic

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

PLACE ORDER

have accelerated T1D onset with increased insulitis. These mice may be useful when studying the effect of neuronal autoimmunity on T1D development.

Donating Investigator

Dr. David Serreze, The Jackson Laboratory

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GENETIC OVERVIEW

Genetic Background **Generation**

Tg(IgkH280)934Dvs

Allele Type

Transgenic (Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity 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

NOD-PerL mice express the *Igk* light chain gene of islet-derived peripherin-specific B cell hybridoma H280. Approximately 50% of pancreatic islet associated B lymphocytes in NOD mice recognize the autoantigen peripherin. Peripherin is expressed widely in neuronal cell bodies and axons of the peripheral and central nervous system. Expression of peripherin also occurs in the peri-insular areas of postnatal mice NOD. The H280 clone was chosen since it was isolated from the islets of a recent T1D onset NOD mouse, exhibited strong peripherin binding, and neither its heavy or light chain demonstrate any evidence of affinity maturation.

Hemizygous *NOD-PerL* mice exhibit greatly accelerated Type 1 diabetes (T1D) onset, at a frequency of between 90-95% by 20 weeks of age. While control NOD/ShiLtJ mice (Stock No. 001976) T1D develops at a frequency of between 80-90% by 30-40 weeks of age. Insulitis development is also accelerated in this strain compared to controls.

When *NOD-PerL* mice are crossed with *NOD-PerH* mice, expressing the peripherin-specific B cell hybridoma H280 *Ighm* (IgM) and *Ighd* (IgD) heavy chain genes (Stock No. 028930), resulting *NOD-Perlg* mice have further accelerated T1D development and insulitis compared to the separate transgenic lines.

Development

Expression Data

Control Suggestions

Genetics

Tg(IgkH280)934Dvs

Disease/Phenotype

- Disease Terms
- Research Areas By Phenotype
- Mammalian Phenotype Terms by Genotype
- References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR:Tg(IgkH280)934Dvs
QPCR:Tg(IgkH280)934Dvs-qPCR-alternate1
Genotyping resources and troubleshooting

Breeding Considerations

When maintaining a live colony, homozygous mice may be bred together.

Additional Breeding and Husbandry Support

Citation

When using the NOD-PerL mouse strain in a publication, please cite the originating article(s) and include JAX stock #028931 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

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

Cryo
Recovery

Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Please inquire	$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

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General Terms and Conditions

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