

NOD.129S2(B6)-*Tlx1*^{tm1Sjk}/DvsJ

Stock No: **019142**

 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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Donating Investigator

Dr. David Serreze, The Jackson Laboratory

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GENETIC OVERVIEW

Genetic Background

001976 NOD/ShiLtJ

Generation

Tlx1^{tm1Sjk}

Alele Type

Targeted (Null/Knockout)

Gene Symbol

Tlx1

Gene Name

T cell leukemia, homeobox 1

VIEW GENETICS

RESEARCH APPLICATIONS

Diabetes and Obesity Research
Immunology, Inflammation and Autoimmunity Research
Internal/Organ 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

Mice homozygous for the $Tlx1^{tm1Sjk}$ targeted mutation on this NOD congenic background do not differ in diabetes incidence from standard NOD controls and thymic T and B cell profiles are normal even though these homozygotes are asplenic. The outward appearance looks like that of the NOD host background, with no obvious limb abnormalities (D.V. Serreze, personal communication). $Tlx1^{tm1Sjk}$ homozygotes have been finely characterized on other genetic backgrounds and found to lack a spleen; however, all other internal organs were found to be normal. Characteristics reported included: polydactyly or oligodactyly of the hindlimbs, tibial hemimelia, and sometimes reduction of the femur and pubic element of the pelvic girdle. Pharyngeal and mastication muscles derived from the branchial arches were reported to be present and anatomically normal homozygotes had normal cranial ganglia morphology and position and normal cranial motor nuclei function. Also reported were normal numbers of RBCs but increased numbers of WBCs, including neutrophils and lymphocytes. The B-cell and T-cell profile was described as normal in the thymus, lymph nodes and peripheral blood. Many erythrocytes had nuclear fragments (Howell-Jolly bodies).

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

$Tlx1^{tm1Sjk}$

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

Separated PCR: [Tlx1alternate1](#)

[Genotyping resources and troubleshooting](#)

Appearance

albino

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

Citation

When using the NOD.129S2(B6)- $Tlx1^{tm1Sjk} / DvsJ$ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #019142 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

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CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT

DESCRIPTION

PRICE

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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.

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LICENSING INFORMATION

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Email: TechTran@jax.org

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All

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