



# B 6 . 1 2 9SXI t-2 9<sup>tm4Msq</sup> a-1/ J

Stock No: 017739

Congenic, Targeted Mutation



CRYO RECOVERY

P L A C E O R D E R

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

## Overview

These ENT<sup>-/-</sup> mice are deficient for *Slc29a1* and exhibit decreased sensitivity to the effects of ethanol intoxication, decreased anxiety-like behavior and increased alcohol consumption. They have applications in studies related to alcohol dependence.

Donating Investigator

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## GENETIC OVERVIEW

Genetic Background

Generation

*Slc29a1<sup>tm1Msg</sup>*

Allele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

*Slc29a1*

solute carrier family 29 (nucleoside transporters), member 1

[VIEW GENETICS](#)

## RESEARCH APPLICATIONS

[Metabolism Research](#)[Neurobiology Research](#)[Research Tools](#)[VIEW ALL RESEARCH APPLICATIONS](#)

## BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery[VIEW PRICE LIST](#)

### [Details](#)

#### [Detailed Description](#)

*Slc29a1*, also known as ENT1, encodes an ethanol sensitive sodium-independent equilibrative transporter of adenosine and regulates cellular adenosine concentrations. Adenosine acts as a neuromodulator and mediator of ethanol intoxication. Mice homozygous for this targeted mutation of *Slc29a1* exhibit reduced behavioral effects of ethanol intoxication, increased alcohol consumption and decreased anxiety-like behavior when compared to wildtype controls.

No gene product (mRNA) is detected by in situ hybridization analysis of brain sections from homozygotes. No functional protein is detected by binding and uptake activity analysis. At 10-12 weeks of age, homozygotes have a smaller body weight than wildtype controls. Homozygotes display decreased ethanol-induced motor incoordination and righting reflex loss as well as an enhanced preference for ethanol. Adenosine A1 receptor function in the striatum is diminished. Increased frequency and amplitude of spontaneous excitatory postsynaptic currents (EPSCs) and elevated glutamate levels in the nucleus accumbens are also observed. The flagellum of sperm from homozygotes have a slightly diminished response to accelerating stimuli (2-chloro-2'-deoxyadenosine).

Mice that are homozygous for the targeted mutation are viable, fertile, and normal in size.

[+ Development](#)

[+ Control Suggestions](#)

[+ Selected References](#)

[- Genetics](#)

[+ \*Slc29a1\*<sup>tm1Msg</sup>](#)

[- Disease/Phenotype](#)

[+ Disease Terms](#)

[+ Research Areas By Genotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

[- Technical Support](#)

C H A T   O  F L I N E

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:[Slc29a1<sup>tm1Msg</sup>](#)

Separated MCA:[Slc29a1<sup>tm1Msg</sup>](#)

[Genotyping resources and troubleshooting](#)

## Breeding Considerations

When maintaining a live colony, these mice can be bred as homozygotes.

[Additional Breeding and Husbandry Support](#)

## Citation

When using the B6.129X1-[Slc29a1<sup>tm1Msg</sup>](#)/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #017739 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 | International

Pricing effective for USA, Canada and Mexico shipping destinations

### Cryorecovery - Domestic Pricing

SERVICE	GENOTYPE	PRICE
Cryo Recovery	Heterozygous or wildtype for Slc29a1<tm1Msg>	\$2,854.50

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a [Dedicated Supply](#) for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

### Related Products and Services

Frozen Mouse Embryo	<a href="#">B6.129X1-Slc29a1&lt;tm1Msg&gt;/J Frozen Embryo</a>	\$2595.00
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## 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.

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### Terms of Use

[General Terms and Conditions](#)

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Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)

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All

By Allele

By Gene

By Collection

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