



# B 6 . C 3 B *arc-n a<sup>tg</sup>1/aL* e t J

Stock No: 008622

 Congenic, Spontaneous 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

Mice homozygous for this spontaneous mutation of the calcium channel, voltage-dependent, P/Q type, alpha 1A subunit gene have an ataxic gait, paroxysmal dyskinesia and absence seizures. Tottering 4J mice may be useful for studies of epilepsy and voltage-dependent calcium channels.

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## GENETIC OVERVIEW

Genetic Background      Generation

*Cacna1a<sup>tg-4J</sup>*

Allele Type	Gene Symbol	Gene Name
Spontaneous	<i>Cacna1a</i>	calcium channel, voltage-dependent, P/Q type, alpha 1A subunit

VIEW GENETICS

## RESEARCH APPLICATIONS

Neurobiology Research  
Cell Biology Research

VIEW ALL RESEARCH APPLICATIONS

## BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

### Details

#### Detailed Description

Homozygotes for the tottering 4 Jackson allele exhibit a phenotype similar to that of mice homozygous for the tottering allele. Mice have an ataxic gait, with high stepping, wagging movements and paroxysmal dyskinesia. EEG recordings reveal 5-7 Hz spike wave discharges accompanied by behavioral arrest lasting up to 1.8 sec and occurring an average of four times per hour. This seizure phenotype is less severe than in tottering mice. Unique among the tottering alleles, *tg-4J* causes altered activation and inactivation kinetics of the voltage-dependent calcium channel. This strain may be useful for studies of epilepsy and voltage-dependent calcium channels.

#### Development

#### Control Suggestions

#### Selected References

## Genetics

+ [Cacna1a<sup>tg-4J</sup>](#)

## Disease/Phenotype

+ [Disease Terms](#)

+ [Research Areas By Genotype](#)

+ [Mammalian Phenotype Terms by Genotype](#)

+ [References](#)

## Technical Support

CHAT OFFLINE

CONTACT TECHNICAL SUPPORT

### Genotyping Protocols

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

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

[Additional Breeding and Husbandry Support](#)

### Citation

When using the B6.C3B1-Cacna1a<sup>tg-4J</sup>/LetJ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #008622 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 for Cacna1a<tg-4J>	\$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	B6.C3Bir-Cacna1a<tg-4J>/LetJ	\$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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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.

## Terms Of Use

### Terms of Use

[General Terms and Conditions](#)

Q U E S T I O N S   A B O U T   T E R M S   O F   U S E

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**TOMORROW'S CURES**

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