

**B6.Cg-Os +/+ *Cacna1a*<sup>tg-1a</sup> /J**Stock No: **000566** **Congenitc**

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

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## GENETIC OVERVIEW

**Genetic Background****Generation**

000664 C57BL/6J

### *Cacna1a*<sup>tg-1a</sup>

**Allele Type****Gene Symbol****Gene Name**

Spontaneous (Not Specified)

*Cacna1a*

calcium channel, voltage-dependent, P/Q type, alpha 1A subunit

### *Os*

**Allele Type****Gene Symbol****Gene Name**

Radiation induced

*Os*

oligosyndactylism

[V I E W G E N E T I C S](#)

## RESEARCH APPLICATIONS

Neurobiology Research

Mouse/Human Gene Homologs

Cell Biology Research

Developmental Biology Research

Internal/Organ Research

[V I E W A L L R E S E A R C H A P P L I C A T I O N S](#)

## 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 leaner spontaneous mutation ( $Cacna1a^{tg-la}$ ) begin to show ataxia, stiffness, and retarded motor activity by 8 to 10 days of age. Many homozygous mutant mice die by weaning age, but some survive, and females may even breed. Homozygous mutant adults are characterized by instability of the trunk and hypertonia of the trunk and limb muscles. Seizures have not been observed. The cerebellum is reduced in size, particularly in the anterior region. There is loss of granule cells beginning at 10 days of age and loss of Purkinje and Golgi cells beginning after 1 month.

Leaner/tottering heterozygotes ( $Cacna1a^{tg-la}/Cacna1a^{tg}$ ) show ataxia, stiffness, and retarded motor activity at 15 to 17 days of age. Within a few days, they develop a wobbly gait and intermittent focal seizures which continue throughout life. The cerebellum shows shrinkage and degenerative changes of the Purkinje cells.

#### Development

#### Control Suggestions

#### Selected References

### Genetics

#### $Cacna1a^{tg-la}$

#### Os

## ⊖ Disease/Phenotype

+ Disease Terms

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+ Research Areas By Phenotype

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+ Mammalian Phenotype Terms by Genotype

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+ References

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## ⊖ 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

[Genotyping resources and troubleshooting](#)

### Appearance

black, fused digits

Related Genotype: *a/a* Os *+/+* ? or *a/a* Os *+/+* *Cacnala*<sup>tg-la</sup>

black, ataxic

Related Genotype: *a/a* + *Cacnala*<sup>tg-la</sup> /+ *Cacnala*<sup>tg-la</sup>

### Citation

When using the B6.Cg-Os *+/+* *Cacn1a*<sup>tg-la</sup> /J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #000566 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.

## CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Progeny testing required but not provided. No genotyping assay is available for these recessive cryo-recovered animals of undefined genotype	\$2,854.50

## RELATED PRODUCTS AND SERVICES

<a href="#">Frozen Mouse Embryo</a>	B6.Cg-Os +/- Cacna1a<tg-la>/J	\$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.

## 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

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

## LICENSING INFORMATION

Phone: 207-288-6470

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

## Related Strains

All

By Allele

By Gene

By Collection



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