

B6.129X1-Camkk1^{tm1Tch} /J

Stock No: 006606 | Camkk1 KO

 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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activation. They are suitable for use in applications related to neuronal functions.

Donating Investigator

Talal Chatila, Boston Children's Hospital

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GENETIC OVERVIEW

Genetic Background

Generation

Camkk1^{tm1Tch}

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Camkk1

calcium/calmodulin-dependent protein kinase kinase 1, alpha

VIEW GENETICS

RESEARCH APPLICATIONS

Cell Biology Research

Immunology, Inflammation and Autoimmunity Research

Neurobiology 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

Homozygotes are viable and fertile. Immunoblots using antibodies against both carboxy- and amino-terminal peptide sequences confirms the absence of wildtype protein in brain tissue. These CaMKKalpha-deficient mice exhibit deficits in context fear during both conditioning and long-term follow-up testing. This is accompanied by impaired activation of other kinases and substrates downstream in the Ca^{2+} /calmodulin kinase (CaMK) cascade. Homozygous mice have normal long-term spatial memory formation, cued fear conditioning, long-term potentiation and anxiety-like behavior levels. These mutant mice may be useful in neurological studies involving the CaMK cascade, neuronal gene transcription, synaptic plasticity, contextual fear and long-term memory consolidation.

Development

Control Suggestions

Selected References

Genetics

Camkk1^{tm1Tch}

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

Standard PCR:[Camkk1](#)

[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 Camkk1 KO mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #006606 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/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous for Camkk1<tm1Tch>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

B6.129X1-Camkk1<tm1Tch>/J Frozen Embryo

\$2595.00

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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.

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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

Related Strains

All

By Allele

By Gene

By Collection



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