

C57BL/6-Camk2a^{tm1Vyb}/J

Stock No: **006575** | CA3 α -CaMKII KO

 Coisogenic, 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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conditional mutations in applications related to neurological studies.

Donating Investigator

Dr. Susumu Tonegawa, Massachusetts Institute of Technology

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GENETIC OVERVIEW

Genetic Background

Generation

Camk2a^{tm1Vyb}

Alele Type

Targeted (Conditional ready (e.g. floxed), No functional change)

Gene Symbol

Camk2a

Gene Name

calcium/calmodulin-dependent protein kinase II alpha

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

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

Mice homozygous for this "alpha-CaMKII" allele are viable and fertile with no reported neurological abnormalities. These mutant mice have *loxP* sites flanking exon 2 of the endogenous gene. When bred to Cre-recombinase expressing mice, exon 2 is deleted in the resulting offspring dependent on the tissue specificity of the promoter of the *cre* transgene.

For example, when crossed with transgenic mice expressing Cre-recombinase in hippocampal CA3 pyramidal cells (see Stock No. [006474](#)), the resulting offspring show altered neurotransmitter release. These "floxed" mice may be useful for neurological studies such as calcium/calmodulin-dependent protein kinase activity.

Development

Control Suggestions

Selected References

Genetics

Camk2a^{tm1Vyb}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

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:[Camk2a](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, homozygous mice are bred.

[Additional Breeding and Husbandry Support](#)

Citation

When using the CA3 α -CaMKII KO mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #006575 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 Camk2a^{tm1Vyb}	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

C57BL/6-Camk2a<tm1Vyb>/J Frozen Embryo

\$2595.00

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

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ADDITIONAL USE RESTRICTIONS APPLY

[Use of MICE by companies or for-profit entities requires a license prior to shipping.](#)

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection




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Yes No