

B6;129P2-Prkcg^{tm1Stl}/J

Stock No: **002466** | PKCy KO

 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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applications related to the study of long-term potentiation in neuron signal transmission.

Donating Investigator

Dr. Susumu Tonegawa, Massachusetts Institute of Technology

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GENETIC OVERVIEW

Genetic Background

Generation

Prkcg^{tm1Stl}

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Prkcg

protein kinase C, gamma

VIEW GENETICS

RESEARCH APPLICATIONS

Sensorineural 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

Mice homozygous for the *Prkcg*^{tm1Stl} targeted mutation are viable and develop normally. Homozygous mice show diminished long-term potentiation (LTP) in the hippocampus, but two other types of synaptic plasticities are normal, namely long-term depression and paired-pulse facilitation. Despite this diminished LTP capacity homozygotes can learn to do hippocampus-dependant tasks, such as the Morris water maze and context-dependent fear conditioning, with only slight deficits.

Development

Control Suggestions

Selected References

Genetics

Prkcg^{tm1Stl}

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

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Expected coat color from breeding: White Bellied Agouti, Black

[Additional Breeding and Husbandry Support](#)

Appearance

white-bellied agouti

Related Genotype: A^W/A^W

Citation

When using the PKC γ KO mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #002466 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 or wildtype for Prkcc<tm1St>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

B6;129P2-Prkcg<tm1Stl>/J

\$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.

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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

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