

B6.129S4-Prkce^{tm1Msg} /J

Stock No: **004189** | PKCε 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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stimuli.

Donating Investigator

Robert O. Messing, The University of Texas at Austin

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GENETIC OVERVIEW

Genetic Background

Generation

Prkce^{tm1Msg}

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Prkce

protein kinase C, epsilon

VIEW GENETICS

RESEARCH APPLICATIONS

Cancer Research
Cell Biology Research
Sensorineural 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 that are homozygous for the *Prkce*^{tm1Msg} targeted mutation are viable, normal in size and do not display any gross physical or behavioral abnormalities. Homozygous females produce small litters (0-2 pups). Protein kinase C, epsilon protein was not immunodetectable in dorsal root ganglia or in the central nervous system of mutant mice. Homozygous mutant mice exhibit reduced anxiety, reduced alcohol consumption and reduced responses to nociceptive stimuli. The mice are also supersensitive to acute behavioral effects of allosteric Gamma aminobutyrate (GABA) type A receptor activating drugs. This strain represents a model that may be useful in studies of pharmacological agents for the treatment of alcoholism, anxiety and pain.

Development

Control Suggestions

Selected References

Genetics

Prkce^{tm1Msg}

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

Separated MCA:[Prkce-Alternate 1](#)

Standard PCR:[Prkce](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

This strain originated on a C57BL/6J X 129S4 background, and has been backcrossed for 10 generations on a C57BL/6J background. Coat color expected from breeding:Black

[Additional Breeding and Husbandry Support](#)

Citation

When using the PKCε KO mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #004189 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 Wild-type for Prkce<tm1Msg>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

B6.129S4-Prkce<tm1Msg>/J Frozen Embryos

\$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

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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