



C ; 1 2 9 B 4e-n^{tm1Hwu} / J

Stock No: 004597 | *Pten*^{fllox}

Targeted Mutation



CRYO RECOVERY

P L A C E O R D E R

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

Overview

Also Known As: *Pten*^{fllox}

A C57BL/6J congenic version of this strain is available as Stock No. [006440](#).

When used in conjunction with a Cre recombinase-expressing strain, this strain is useful in generating tissue-specific mutants of the floxed *Pten* allele, and for example may be useful in studies of neurogenesis, glia differentiation and cerebellar development.

Donating Investigator

Hong Wu, UCLA

GENETIC OVERVIEW

Genetic Background

Generation

Pten^{tm1Hwu}

Allele Type

Gene Symbol

Gene Name

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

Pten

phosphatase and tensin homolog

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Cancer Research

Cell Biology Research

Apoptosis Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

These mice possess *loxP* sites flanking exon 5 of the targeted gene. Mice homozygous for the "floxed" allele are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. When used in conjunction with a Cre recombinase-expressing strain, this strain is useful in generating tissue-specific mutants of the floxed allele.

For example, when crossed to a strain expressing Cre recombinase in astrocytes (see Stock No. [012887](#)), this mutant mouse strain may be useful in studies of neurogenesis.

When crossed to a strain expressing Cre recombinase in the central nervous system (see Stock No. [004600](#)), this mutant mouse strain may be useful in studies of glia differentiation and cerebellar development.

+ Development

+ Control Suggestions

+ Selected References

- Genetics

+ *Pten*^{tm1Hwu}

- Disease/Phenotype

+ Disease Terms

+ Research Areas By Genotype

+ Mammalian Phenotype Terms by Genotype

+ References

- Technical Support

C H A T O  F L I N E

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:[Pten^{tm1Hwu}](#)

Standard PCR:[Pten^{tm1Hwu}](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, homozygous mice are bred.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the [Pten^{flox}](#) mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #004597 in your

Animal Health Reports

Materials and Methods section

[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	GENOTYPE	PRICE
Cryo Recovery	Heterozygous for Pten<tm1Hwu>	\$2,854.50

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a [Dedicated Supply](#) for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

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.

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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.

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Terms of Use

[General Terms and Conditions](#)

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Additional Use Restrictions Apply

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Licensing Information

Phone: 207-288-6470

Email: TechTran@jax.org

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