



B 6 . 1 2 9 PSt4^{tm1Hwu} / J

Stock No: 006440 | Pten^{fllox}

Congenic, Targeted Mutation



AVAILABLE

PLACE ORDER

Live mice available in varying quantities. Ask Customer Service for details.

Overview

Also Known As: Pten^{fllox}

Pten^{fllox} mice have *loxP* sites flanking exon 5 of the phosphatase and tensin homolog gene. This C57BL/6J-congenic Pten^{fllox} strain is useful for generating Cre recombinase-inducible, tissue-specific PTEN knock-out in studies of oncology, tumor development, neurogenesis, glial differentiation and cerebellar development, for example.

Donating Investigator

IMR Colony, The Jackson Laboratory

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

N?⁺N12F10

(2019-07-11 00:00:00)

Pten^{tm1Hwu}

Allele Type

Gene Symbol

Gene Name

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

Pten

phosphatase and tensin homolog

V I E W G E N E T I C S

RESEARCH APPLICATIONS

Research Tools

Cancer Research

Cell Biology Research

Apoptosis Research

V I E W A L L R E S E A R C H A P P L I C A T I O N S

BASE PRICE

Starting at:

\$255.00 Domestic price for female 4-week

V I E W P R I C E L I S T

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.

When crossed to B6.129X1-*Twist2*^{tm1.1(cre)Dor}/J mice (Stock No. [008712](#)) expressing Cre recombinase in mesoderm-derived tissues (including chondrocytes and osteoblasts) offspring die at birth and exhibit defects in angioblast differentiation.

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. It should be noted that the phenotype could vary from that originally described. We will modify the strain description as published results become available.

[+ Development](#)

[+ Control Suggestions](#)

[+ Selected References](#)

[- Genetics](#)

[+ *Pten*^{tm1Hwu}](#)

[- Disease/Phenotype](#)

[+ Disease Terms](#)

[+ Research Areas By Genotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

[- Technical Support](#)

CHAT OFFLINE

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

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

[Genotyping resources and troubleshooting](#)

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

When maintaining a live colony, these mice are bred as homozygotes.

[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 #006440 in your Materials and Methods section.

[Facility Barrier Level Descriptions](#)

 [AX11 \(Maximum\)](#)

➔ Pricing & Availability



Live mice available in varying quantities. Ask Customer Service for details.

Available

Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

Live Mouse			
AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Homozygous for Pten ^{tm1Hwu}	\$255.00
	Male	Homozygous for Pten ^{tm1Hwu}	\$255.00
5 weeks	Female	Homozygous for Pten ^{tm1Hwu}	\$255.00
	Male	Homozygous for Pten ^{tm1Hwu}	\$255.00
6 weeks	Female	Homozygous for Pten ^{tm1Hwu}	\$255.00
	Male	Homozygous for Pten ^{tm1Hwu}	\$255.00
7 weeks	Female	Homozygous for Pten ^{tm1Hwu}	\$255.00
	Male	Homozygous for Pten ^{tm1Hwu}	\$255.00
8 weeks	Female	Homozygous for Pten ^{tm1Hwu}	\$255.00
	Male	Homozygous for Pten ^{tm1Hwu}	\$255.00
9 weeks	Female	Homozygous for Pten ^{tm1Hwu}	\$255.00
	Male	Homozygous for Pten ^{tm1Hwu}	\$255.00
10 weeks	Female	Homozygous for Pten ^{tm1Hwu}	\$255.00
	Male	Homozygous for Pten ^{tm1Hwu}	\$255.00
11 weeks	Female	Homozygous for Pten ^{tm1Hwu}	\$255.00
	Male	Homozygous for Pten ^{tm1Hwu}	\$255.00
12 weeks	Female	Homozygous for Pten ^{tm1Hwu}	\$255.00
	Male	Homozygous for Pten ^{tm1Hwu}	\$255.00

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