



B 6 ; 1 2 9 P T t 2 - H 1 1 / W r e y J

Stock No: 030494 | Ptch1^{lox}

Targeted Mutation



AVAILABLE

P L A C E O R D E R

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

Overview

Also Known As: Ptch1^{lox}

Ptch1^{lox/lox} mice possess *loxP* sites flanking exon 3 of the patched 1 gene making them useful when studying embryonic development and tumorigenesis.

Donating Investigator

Robert J. Wechsler-Reya, Sanford Burnham Prebys Medical Discovery Institute

R E A D M O R E +

GENETIC OVERVIEW

Genetic Background Generation
?+pN1F4
(2019-05-24 00:00:00)

Ptch1^{tm1Bjw}

Allele Type	Gene Symbol	Gene Name
Targeted (Conditional ready (e.g. floxed), No functional change)	<i>Ptch1</i>	patched 1

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

RESEARCH APPLICATIONS

Developmental Biology Research
Research Tools

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

Ptch1^{lox/lox} mice possess *loxP* sites flanking exon 3 of the patched 1 (*Ptch1*) gene. PTCH1 is a receptor for sonic hedgehog (SHH), indian hedgehog (IHH), and desert hedgehog (DHH), and is involved in embryogenesis and tumorigenesis. Mice that are homozygous for this allele are viable and fertile. When bred to mice that express tissue-specific Cre recombinase, resulting offspring will express a truncated protein (13 amino acids after the first transmembrane domain) in the *cre*-expressing tissues.

When bred to STOCK Tg(Atoh1-cre/Esr1*)14Fsh/J mice (Stock No. [007684](#)), expressing tamoxifen-inducible Cre-recombinase under control of the Math1 promoter in neural progenitor cells, resulting offspring develop medulloblastoma by 3-6 months of age after tamoxifen-induction.

When bred to B6.Cg-Tg(Atoh1-cre)1Bfri/J mice (Stock No. [011104](#)) and to FVB-Tg(CAG-luc,-GFP)L2G85Chco/J mice (Stock No. [008450](#)), resulting offspring develop medulloblastoma by 2-3 months of age. All tissues, including tumors, express luciferase/GFP. When tumors are transplanted into naive mice, tumor growth can be monitored by bioluminescent imaging, and tumor cells can be isolated by flow cytometry.

+ Development

+ Control Suggestions

+ Selected References

- Genetics

+ *Ptch1*^{tm1Bjw}

- 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:*Ptch1*^{tm1Bjw}

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the *Ptch1*^{lox} mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #030494 in your

Materials and Methods section.

[Facility Barrier Level Descriptions](#)

 AX10 (Standard)

- 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 Ptch1 ^{tm1Bjw}	\$255.00
	Male	Homozygous for Ptch1 ^{tm1Bjw}	\$255.00
5 weeks	Female	Homozygous for Ptch1 ^{tm1Bjw}	\$255.00
	Male	Homozygous for Ptch1 ^{tm1Bjw}	\$255.00
6 weeks	Female	Homozygous for Ptch1 ^{tm1Bjw}	\$255.00
	Male	Homozygous for Ptch1 ^{tm1Bjw}	\$255.00
7 weeks	Female	Homozygous for Ptch1 ^{tm1Bjw}	\$255.00
	Male	Homozygous for Ptch1 ^{tm1Bjw}	\$255.00
8 weeks	Female	Homozygous for Ptch1 ^{tm1Bjw}	\$255.00
	Male	Homozygous for Ptch1 ^{tm1Bjw}	\$255.00
9 weeks	Female	Homozygous for Ptch1 ^{tm1Bjw}	\$255.00
	Male	Homozygous for Ptch1 ^{tm1Bjw}	\$255.00
10 weeks	Female	Homozygous for Ptch1 ^{tm1Bjw}	\$255.00
	Male	Homozygous for Ptch1 ^{tm1Bjw}	\$255.00
11 weeks	Female	Homozygous for Ptch1 ^{tm1Bjw}	\$255.00
	Male	Homozygous for Ptch1 ^{tm1Bjw}	\$255.00
12 weeks	Female	Homozygous for Ptch1 ^{tm1Bjw}	\$255.00
	Male	Homozygous for Ptch1 ^{tm1Bjw}	\$255.00

Related Products and Services

Frozen Mouse Embryo	B6;129T2-Ptch1 ^{tm1Bjw} /WreyJ	\$2595.00
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