

B6N;129S-Prom1^{tm1(cre/ERT2)Glb}/J

Stock No: **017743** | Prom1C-L

 Targeted Mutation

Live colonies will be removed soon

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A CreER^{T2} fusion protein and β -galactosidase (*lacZ*) gene knocked into the ATG start codon of *Prom1* abolishes gene function in these mice. Useful applications include visualizing and tracking adult stem cell lineages.

Donating Investigator

Richard Gilbertson, St. Jude Children's Research Hospital

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GENETIC OVERVIEW

Genetic Background

Generation

N?⁺N1F20
(2019-11-01 00:00:00)

Prom1^{tm1(cre/ERT2)Glb}

Allele Type

Targeted (Recombinase-expressing, Inducible)

Gene Symbol

Prom1

Gene Name

prominin 1

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Sensorineural Research

Internal/Organ Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$278.00 Domestic price for female

\$2,854.50 Domestic price Cryo Recovery

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

Details

Detailed Description

A CreER^{T2} fusion protein, and an internal ribosome entry site (IRES)- β -galactosidase (*lacZ*) gene replace the ATG start codon of the prominin 1 (*Prom1*) gene, abolishing gene expression. PROM1 is a transmembrane glycoprotein expressed on the surface of stem cells. In this strain, endogenous *Prom1* promoter/enhancer regions drive *lacZ* expression in embryonic central nervous system, kidney, intestine, and skeletal system. In adults, expression is seen in acinar and islet cells of the pancreas, goblet and columnar epithelial cells of the colon, photoreceptors of the eye, renal tube cells, brain, lung, and both male and female reproductive systems. Cre-ER^{T2} fusion gene activity is inducible and only observed following tamoxifen administration. When these *Prom1*^{C-L} mice are bred with mice containing loxP-flanked sequence, tamoxifen-inducible, Cre-mediated recombination will result in deletion of the floxed sequences in the *Prom1*-expressing cells of the offspring. For example when bred to *Gt(ROSA)26Sor*^{tm1(EYFP)Cos}/J mice (Stock No. 006148), tamoxifen induction results in *cre* expression in small intestinal crypt cells and the epithelial surface of the villi. Homozygotes are viable and fertile, but are blind due to retinal pigmentosa.

The Cre-ER^{T2} fusion protein consists of Cre recombinase fused to a triple mutant form of the human estrogen receptor which does not bind its natural ligand (17 β -estradiol) at physiological concentrations but will bind the synthetic estrogen receptor ligands 4-hydroxytamoxifen (OHT or tamoxifen) and, with lesser sensitivity, ICI 182780. Restricted to the cytoplasm, Cre-ER^{T2} can only gain access to the nuclear compartment after exposure to tamoxifen. To counteract the mixed estrogen agonist effects of tamoxifen injections, which can result in late fetal abortions in pregnant mice, progesterone may be coadministered.

Development

Expression Data

Control Suggestions

Selected References

Genetics

– 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 PCR:[Prom1](#)

Separated MCA:[Prom1 MCA](#)

[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 Prom1C-L mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #017743 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX9 \(Standard\)](#)

– Pricing & Availability



Live colonies will be removed soon

Available

Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE

AGE	SEX	GENOTYPE	PRICE
Approx 4-8 weeks	Female	Homozygous for Prom1 ^{tm1(cre/ERT2)Glb}	\$278.00
	Male	Homozygous for Prom1 ^{tm1(cre/ERT2)Glb}	\$278.00

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous for Prom1<tm1(cre/ERT2)Glb>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6N;129S-Prom1<tm1(cre/ERT2)Glb>/J Frozen Embryo	\$2595.00
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