

B6.129S-*Sfrp1*^{tm1Jrbn}/PcmaJ

Stock No: **023209**

 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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Donating Investigator

Jeffrey S. Rubin, National Cancer Institute

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GENETIC OVERVIEW

Genetic Background

Generation

Sfrp1^{tm1Jrbn}

Alele Type

Targeted (Reporter,
Null/Knockout)

Gene Symbol

Sfrp1

Gene Name

secreted frizzled-related protein 1

VIEW GENETICS

RESEARCH APPLICATIONS

Internal/Organ Research

Developmental Biology Research

Research Tools

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

In this strain, a *lacZ*-neo cassette replaces exon 1 of the secreted frizzled-related protein 1 (*Sfrp1*) gene, abolishing gene function. SFRP1 is a stromal-to-epithelial paracrine signaling molecule expressed in the developing mesenchyme/stroma of the prostate from p1 to p21. It is also a modulator of Wnt signaling, disruption of which has been associated with cancer progression. Homozygotes are viable and fertile. *Sfrp1^{lacZ}* mice exhibit multiple prostatic developmental defects including reduced branching morphogenesis, and delayed proliferation. Increased expression of genes encoding prostate-specific secretory proteins such as beta-microseminoprotein (*Msb*), spermine binding protein (*Sbp*), and transglutaminase 4 (*Tgm4*) is also seen in these mice. β -gal activity is evident in the developing mesenchyme/stroma of the prostate gland from p1 to p21. β -gal activity also was seen in various locations during embryonic development, with low levels detected as early as the 3-somite stage in the extra-embryonic yolk sac and in the neural plate

Development

Expression Data

Selected References

Genetics

Sfrp1^{tm1Jrbn}

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

Standard PCR:[Sfrp1-Alternate 3](#)

Standard PCR:[Generic Neo](#)

Standard PCR:[Generic LacZ Melt Curve Analysis](#)

Probe:[Generic Neo](#)

Probe:[Generic LacZ Probe](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

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

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6.129S-*Sfrp1*^{tm1Jrbn}/PcmaJ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #023209 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 wildtype for Sfrp1<tm1Jrbn>	\$2,854.50

RELATED PRODUCTS AND SERVICES		
Frozen Mouse Embryo	B6.129S-Sfrp1<tm1Jrbn>/PcmaJ Frozen Embryo	\$2595.00

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