

**B6.129-Snrpn<sup>tm2Cbr</sup> /J**

Stock No: **012443**

 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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may be useful in studying the Prader Willi syndrome imprinting center.

### Donating Investigator

James Resnick, University of Florida

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## GENETIC OVERVIEW

Genetic Background

Generation

*Snrpn<sup>tm2Cbr</sup>*

**Alele Type**

Targeted (Null/Knockout)

**Gene Symbol**

*Snrpn*

**Gene Name**

small nuclear ribonucleoprotein N

VIEW GENETICS

## RESEARCH APPLICATIONS

Developmental Biology Research

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

When females heterozygous for the PWS-IC<sup>del</sup> mutation are bred with wildtype males, the resulting offspring are viable and fertile as adults. In contrast, paternal transmission of the PWS-IC<sup>del</sup> mutation results in neonatal lethality between 1-7 days of age (failure to thrive) due to imprinting defects. Most of these pups will die within 48 hours, however, a few live to 7 days. Pups are underweight, unable to support themselves, dehydrated and weak. Although capable of nursing, little milk is observed in their stomachs and they develop low blood glucose levels. Of note, removing all but one wildtype littermate improves mutant mouse survivability. In addition, mutant mouse viability may be greatly improved by outcrossing to FVB/NJ females. These PWS-IC<sup>del</sup> mutant mice may be useful in studying the Prader Willi syndrome imprinting center.

*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 if necessary as published results become available.*

### Development

### Control Suggestions

### Selected References

## Genetics

### *Snrpn*<sup>tm2Cbr</sup>

## Disease/Phenotype

### Disease Terms

[+ Research Areas By Phenotype](#)

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[+ Mammalian Phenotype Terms by Genotype](#)

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[+ References](#)

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## [- 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:[Snrpn](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

Paternal transmission of the PWS-IC<sup>del</sup> mutation results in neonatal lethality between 1-7 days of age due to imprinting defects.

For routine colony maintenance at The Jackson Laboratory Repository, heterozygous females are bred with wildtype males from the colony (or C57BL/6J inbred males); this results in offspring that are viable and fertile as adults.

If researchers want to generate PWS-IC<sup>del</sup> offspring with the neonatal lethality phenotype, wildtype females from the colony (or C57BL/6J inbred females) may be bred with heterozygous males; this results in paternal transmission of the PWS-IC<sup>del</sup> mutation. Of note, removing all but one wildtype littermate improves mutant mouse survivability. In addition, mutant mouse viability may be greatly improved by outcrossing to FVB/NJ females.

[Additional Breeding and Husbandry Support](#)

### Citation

When using the B6.129-*Snrpn*<sup>tm2Cbr</sup>/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #012443 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](#)



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## CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Heterozygous or wildtype for Snrpn<tm2Cbr>	\$2,854.50

## RELATED PRODUCTS AND SERVICES

<a href="#">Frozen Mouse Embryo</a>	B6.129-Snrpn<tm2Cbr>/J	\$2595.00
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## PAYMENT TERMS AND CONDITIONS

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## THE JACKSON LABORATORY'S GENOTYPE PROMISE

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. We do not guarantee [breeding performance](#) and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

## Terms Of Use

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Q U E S T I O N S   A B O U T   T E R M S   O F   U S E

### ADDITIONAL USE RESTRICTIONS APPLY

[Use of MICE by companies or for-profit entities requires a license prior to shipping.](#)

### LICENSING INFORMATION

Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)

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By Gene

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