# B6.129X1-*Snap25* $^{tm1Mcw}$/J

Stock No: **004863** | SNAP-25 KO

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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reflexes, and abnormal innervation and muscle fiber development is observed.

## Donating Investigator

Michael C. Wilson, University of New Mexico

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## GENETIC OVERVIEW

| Genetic Background | Generation |
|---|---|

### *Snap25*$^{tm1Mcw}$

| Allele Type | Gene Symbol | Gene Name |
|---|---|---|
| Targeted (Null/Knockout) | *Snap25* | synaptosomal-associated protein 25 |

VIEW GENETICS

## RESEARCH APPLICATIONS

Cardiovascular Research
Neurobiology Research
Developmental Biology Research

VIEW ALL RESEARCH APPLICATION

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

## Details

### Detailed Description

Homozygous mutant mice die at birth from respiratory failure. At embryonic day 17.5 to 18.5 homozygous embryos appear smaller and do not display spontaneous movement or sensorimotor reflexes. Dilated vascular channels in subcutaneous tissues give the embryos an external blotchy appearance. No gene product (mRNA or protein) is detected by Northern or Western blot analysis of brain tissue from homozygous animals. Histological analysis of fetal diaphragm tissue reveals a dispersed pattern of innervation and fewer layers of muscle fibers. Thin, disarrayed intercostal and anterior chestwall muscles are also observed. Spontaneous miniature endplate potential (mEPP) activity is detected in the diaphragm phrenic nerve, but no evoked endplate potentials (EPP), evoked neurotransmitter release or muscle contraction is detected with stimulation of the neuromuscular junction (NMJ). Mutant NMJs exhibit larger endplate diameters and lower levels of acetylcholinesterase. Tetrodotoxin (TTX) resistant miniature excitatory postsynaptic currents (mEPSCs), but not evoked, action-potential dependent responses are detected from mutant central nervous system (CNS) synapses. Mice that are heterozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. Thismutant mouse strain may be useful in studies of neuroexocytosis and neurotransmitter release in the developing nervous system.

### Development

### Control Suggestions

### Selected References

## Genetics

### *Snap25*$^{tm1Mcw}$

## Disease/Phenotype

### Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

## Technical Support

CONTACT TECHNICAL SUPPORT

### Genotyping Protocols

Standard PCR:Snap25
Genotyping resources and troubleshooting

### Breeding Considerations

This strain originated on a B6;129 background and was backcrossed to C57BL/6 for 7 generations (September 2003). The strain must be maintained as a heterozygote. Homozygotes are not viable.

Additional Breeding and Husbandry Support

### Citation

When using the SNAP-25 KO mouse strain in a publication, please cite the originating article(s) and include JAX stock #004863 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 Internatic

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

| SERVICE/PRODUCT | DESCRIPTION | PRICE |
|---|---|---|
| Cryo Recovery | Heterozygous or Wild-type for Snap25<tm1Mcw> | $2,854.50 |

| RELATED PRODUCTS AND SERVICES | | |
|---|---|---|
| Frozen Mouse Embryo | B6.129X1-Snap25<tm1Mcw>/J Frozen Embryos | $2595.00 |

## PAYMENT TERMS AND CONDITIONS

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

## 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

## TERMS OF USE

General Terms and Conditions

QUESTIONS ABOUT TERMS OF USE

## 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

# Related Strains

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By Allele

By Gene

By Collection

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