

C3Fe.Cg-Scn8a^{med}/J

Stock No: **003798** | med

 Congenic, Spontaneous Mutation

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

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of the hind limbs, severe muscle atrophy, degeneration of Purkinje cells and juvenile lethality.

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GENETIC OVERVIEW

Genetic Background

Generation

Scn8a^{med}

Alele Type

Spontaneous
(Null/Knockout)

Gene Symbol

Scn8a

Gene Name

sodium channel, voltage-gated, type VIII, alpha

VIEW GENETICS

RESEARCH APPLICATIONS

Developmental Biology Research

Immunology, Inflammation and Autoimmunity Research

Neurobiology Research

Cell 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

These mice carry a spontaneous, autosomal recessive mutation characterized by early onset progressive paralysis of the hind limbs, severe muscle atrophy, degeneration of Purkinje cells and juvenile lethality. Mutant mice die 21-23 days after birth having exhibited neurobiological abnormalities of nerve terminal sprouting and swelling and neurotransmission failures. The nonmyelinated gaps of the nodes of Ranvier are significantly widened in mutants compared to control littermates, even in the preclinical stage, although the nodes of Ranvier are not yet ultrastructurally mature. Na⁺ channels, which are known to be located mainly at the nodes of Ranvier in normal myelinated axons, are increased in number in mutant mice even before the disease becomes clinically established. Both the ultrastructural and biochemical developmental abnormalities of the node of Ranvier rapidly approach their maximal expression as the behavioral signs develop.

Development

Control Suggestions

Genetics

Scn8a^{med}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR:[Scn8aalternate1](#)

[Genotyping resources and troubleshooting](#)

Appearance

agouti, unaffected

Related Genotype: *A/A Scn8a^{med}/+* or *A/A +/+*

Citation

When using the med mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #003798 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 Wild-type for <i>Scn8a</i> <med>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	C3Fe.Cg- <i>Scn8a</i> <med>/J	\$2595.00
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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.

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LICENSING INFORMATION

Phone: 207-288-6470
Email: TechTran@jax.org

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All

By Allele

By Gene

By Collection



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