The Jackson Laboratory

B6C3Fe *a/a-Krt71*^{Ca} *Scn8a*$^{med-J}$/J

Stock No: **000304** | motor end plate disease Jackson

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

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progressive atrophy of skeletal muscle, and terminal sprouting of motor nerves. The strain also carries *Krt71* (caracul) that produces curved vibrissae and wavy hair in young mice.

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GENETIC OVERVIEW

Genetic Background	Generation

a

Allele Type	Gene Symbol	Gene Name
Spontaneous	*a*	nonagouti

Krt71^{Ca}

Allele Type	Gene Symbol	Gene Name
Spontaneous	*Krt71*	keratin 71

Scn8a^{med-J}

Allele Type	Gene Symbol	Gene Name
Spontaneous	*Scn8a*	sodium channel, voltage-gated, type VIII, alpha

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research
Cell Biology Research
Dermatology Research
Immunology, Inflammation and Autoimmunity Research

VIEW ALL RESEARCH APPLICATION

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

Mice homozygous for the motor end plate disease-Jackson spontaneous mutation (*Scn8a*$^{med\text{-}J}$) have a phenotype that resembles the original mutation (*Scn8a*^{med}). Homozygous motor end plate disease mutant mice show progressive skeletal muscle weakness beginning 8 to 10 days postnatally and usually die within 2 weeks of onset. Other disease characteristics include progressive atrophy of skeletal muscle, marked terminal sprouting of motor nerves along with slower conduction velocity and prolonged refraction, and eventually failure of muscle fibers to show end-plate potentials or action potentials in response to nerve stimulation. Heterozygotes may show mild manifestations of the disease during the first 2 weeks of life but symptoms disappear with age. Both homozygotes and heterozygotes exhibit immunological aberrations.

Control Suggestions

Genetics

a

Krt71^{Ca}

Scn8a$^{med\text{-}J}$

Disease/Phenotype

- Disease Terms
- Research Areas By Phenotype
- Mammalian Phenotype Terms by Genotype
- References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols
Genotyping resources and troubleshooting

Breeding Considerations

Ca and *Scn8a* are linked on chromosome 15 and are maintained in coupling in this strain.

Additional Breeding and Husbandry Support

Appearance
black, unaffected
Related Genotype: *a/a Scn8a*^{med} /+ or *a/a* +/+

Citation
When using the motor end plate disease Jackson mouse strain in a publication, please cite the originating article(s) and include JAX stock #000304 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 Krt71<Ca>, Heterozygous or Wild-type for Scn8a<med-J>	$2,854.50

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

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LICENSING INFORMATION

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Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection

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Did you find what you were looking for?

Yes No