

B6EiC3Sn *a/A-Cacnb4^{lh}* /J

Stock No: **000504** | lethargic

 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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occasional seizures that resemble human petit mal seizures. They also show pituitary-adrenal hypercorticism.

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

A

Alele Type

Spontaneous

Gene Symbol

a

Gene Name

nonagouti

Cacnb4^{lh}

Alele Type

Spontaneous

Gene Symbol

Cacnb4

Gene Name

calcium channel, voltage-dependent, beta 4 subunit

VIEW GENETICS

RESEARCH APPLICATIONS

Endocrine Deficiency Research

Immunology, Inflammation and Autoimmunity Research

Internal/Organ 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

Mice homozygous for the lethargic spontaneous mutation (*Cacnb4^{lh}*) are first recognizable at 15 days by their lethargic behavior with gait instability and occasional seizures. The seizures resemble human petit mal seizures. No pathological changes were found in the CNS or in skeletal muscles, but peripheral motor nerves show reduced conduction velocity and prolonged distal latency. There is early thymic involution at 3 to 4 weeks in *Cacnb4^{lh}* homozygotes, accompanied by decreased lymphocyte count, decreased cell-mediated immunity, and increased levels of serum IgG1. The defects in the immune system tend to disappear by 2 months of age in mice that survive. In addition to neurological and immunological defects, homozygous lethargic mice show pituitary-adrenal hypercorticism. Homozygotes are smaller and weaker than their normal littermates and often die before 2 months old. Survivors of both sexes may breed, but their reproductivity is low.

Control Suggestions

Selected References

Genetics

A

Cacnb4^{lh}

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

Restriction Enzyme Digest: [Cacnb4](#)

[Genotyping resources and troubleshooting](#)

Appearance

black, ataxic

Related Genotype: *a/a Cacnb4^{lh} /Cacnb4^{lh}*

agouti, ataxic

Related Genotype: *A/? Cacnb4^{lh} /Cacnb4^{lh}*

black, unaffected

Related Genotype: *a/a Cacnb4^{lh} /+* or *a/a +/?*

agouti, unaffected

Related Genotype: *A/? Cacnb4^{lh} /+* or *A/? +/?*

Citation

When using the lethargic mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #000504 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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DomesticInternational

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or Wild-type for <i>Cacnb4</i> <lh>	\$2,854.50

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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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