

B6.129S7-*Chrna3*^{tm1Bay}/J

Stock No: 004164 | α 3-

 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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ocular pupils. They may be useful in applications related to the study of megacystis-microcolon-intestinal hypoperistalsis syndrome in humans.

Donating Investigator

Dr. Arthur Beaudet, Baylor College of Medicine

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GENETIC OVERVIEW

Genetic Background

Generation

Chrna3^{tm1Bay}

Allele Type

Targeted (Null/Knockout)

Gene Symbol

Chrna3

Gene Name

cholinergic receptor, nicotinic, alpha polypeptide 3

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology 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

On the C57BL/6J background, most mice homozygous for the targeted allele die during postnatal week 1-2 (On a 129 background, most survived to postnatal week 4-6). These older, surviving mice fail to open their eyes. Upon inspection, the eye is found to be smaller than that seen in wildtype mice with the pupil being widely dilated and unresponsive to light. The urinary bladders of these mice are severely distended with urine and in the case of older animals, urinary stones. Nicotine fails to elicit a contractile response in bladder tissue derived from homozygotes. Heterozygotes are phenotypically normal.

Development

Genetics

Chma3^{tm1Bay}

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

Standard PCR:[Chrna3](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

This strain originated on a B6;129S7 background and has been backcrossed to C57BL/6 for ten generations (8/01). It is maintained as a heterozygote.

[Additional Breeding and Husbandry Support](#)

Citation

When using the $\alpha 3$ - mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #004164 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 Chrna3<tm1Bay>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.129S7-Chrna3<tm1Bay>/J Frozen Embryo	\$2595.00
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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](#)

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

Related Strains

All

By Allele

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TOMORROW'S CURES



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