

C;129S-Adora2a<sup>tm1Jfc</sup>/J

Stock No: 010685 | A<sub>2A</sub> KO

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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injury and exhibit increased resistance to the addictive substances amphetamine and cocaine.

### Donating Investigator

Joel Linden, University of Virginia

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## GENETIC OVERVIEW

Genetic Background

Generation

*Adora2a*<sup>tm1Jfc</sup>

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

*Adora2a*

adenosine A2a receptor

VIEW GENETICS

## RESEARCH APPLICATIONS

Research Tools

Cardiovascular Research

Neurobiology Research

Immunology, Inflammation and Autoimmunity 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 that are homozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. No functional gene product (protein) is detected by receptor autoradiography analysis of the brain. Experimentally induced cerebral infarction volume and resulting neurological function impairment are reduced in homozygotes. Treatment with receptor agonist, CGS 21680, does not elicit decreased locomotor activity in homozygotes, as compared to wildtype. Homozygotes have reduced spontaneous activity and increased resistance to the addictive substances amphetamine and cocaine. This mutant mouse strain may be useful in studies of behavior, ischemic brain injury, stroke, responses to addictive substances and T cell response to inflammation.

#### Development

#### Control Suggestions

### Genetics

#### *Adora2a*<sup>tm1.Jfc</sup>

### Disease/Phenotype

#### Disease Terms

#### Research Areas By Phenotype

#### Mammalian Phenotype Terms by Genotype

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:[Adora2a](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these mice can be bred as homozygotes.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the A<sub>2A</sub> KO mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #010685 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
<a href="#">Cryo Recovery</a>	Heterozygous for Adora2a<tm1Jfc>	\$2,854.50

## RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

C;129S-Adora2a<tm1Jfc>/J

\$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](#)

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](mailto:TechTran@jax.org)

## Related Strains

All

By Allele

By Gene

By Collection



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