

B6.129-Arg1^{tm1Rki}/J

Stock No: **007741**

 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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Donating Investigator

Stephen Cederbaum, University of California Los Angeles

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GENETIC OVERVIEW

Genetic Background

Generation

Arg1^{tm1Rki}

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Arg1

arginase, liver

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Metabolism Research

Internal/Organ Research

Developmental Biology Research

Neurobiology Research

Reproductive 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

Homozygous *Al*-mutant mice completely lack hepatic arginase (*Al*) activity, exhibit hyperargininemia, severe symptoms of hyperammonemia (including decerebrate posture, lethargy, and high-frequency tremor of the extremities, particularly the tail) and die between 10-14 days after birth. Neural stem cells (NCSS) isolated from homozygous mice exhibit abnormal proliferation and differentiation. In addition, haploid germ cells carrying the disrupted *Al* allele may be less fit/less effective in forming zygotes compared to wild-type spermatozoa. Heterozygotes are viable and fertile. These *Al*-mutant mice may be useful in studying metabolic defects of arginase I deficiency, urea cycle (excretion of excess nitrogen), and neuronal development and function.

Development

Control Suggestions

Selected References

Genetics

Arg1^{tm1Rki}

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:[Arg1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, heterozygous mice may be bred together, to wildtype siblings, or to C57BL/6J inbred mice. Homozygous mice die between 10-14 days after birth.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6.129-*Arg1*^{tm1Rki}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #007741 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 wildtype for Arg1<tm1Rki>	\$2,854.50

Related Products and Services

Frozen Mouse Embryo	B6.129-Arg1<tm1Rki>/J	\$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.

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