

B6;129-Pak6^{tm1Amin} Pak5^{tm1Amin} /J

Stock No: **015825**

 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

Audrey Minden, Rutgers University

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GENETIC OVERVIEW

Genetic Background

Generation

Pak5^{tm1Amin}

Alele Type

Targeted (Null/Knockout)

Gene Symbol

Pak5

Gene Name

p21 (RAC1) activated kinase 5

Pak6^{tm1Amin}

Alele Type

Targeted (Null/Knockout)

Gene Symbol

Pak6

Gene Name

p21 (RAC1) activated kinase 6

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

Cell Biology Research

Developmental 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

In this strain, exons in the p21 protein (Cdc42/Rac)-activated kinase 6 (*Pak6*) and 5 (*Pak5*, formerly *Pak7*) genes are disrupted with neomycin resistance (*neo*) cassettes, abolishing expression of both genes. Homozygotes are viable, fertile, and normal in size. *Pak6* and *Pak5* are members of the group B family of PAK serine/threonine kinases and are coexpressed in the cortex, striatum, and hippocampus. Both genes also play a role in neuronal growth and cell survival. These mice have impaired cognitive function and deficits in learning and memory retention. They display a lower level of activity and decreased level of aggression compared to wildtype littermates. These mice may be useful for studying learning, memory, and locomotion.

Development

Control Suggestions

Selected References

Genetics

Pak5^{tm1Amin}

Pak6^{tm1Amin}

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:[Pak6](#)

Standard PCR:[Pak7](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, mice homozygous for both alleles may be bred together.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6;129-*Pak6*^{tm1Amin} *Pak5*^{tm1Amin} /J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #015825 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 for Pak6<tm1Amin>, Heterozygous for Pak7<tm1Amin>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6;129-Pak6<tm1Amin> Pak7<tm1Amin>/J Frozen Embryo	\$2595.00
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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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