

B6.129P2-Pak5^{tm1Amin} /J

Stock No: **015827**

 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

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

VIEW GENETICS

RESEARCH APPLICATIONS

Developmental Biology 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

In this strain, a neomycin resistance (neo) cassette replaces exon 3 of the p21 protein (Cdc42/Rac)-activated kinase 5 (*Pak5*, formerly *Pak7*) gene, abolishing gene expression. Homozygotes are viable, fertile, normal in size, and do not display any gross physical abnormalities. *Pak5* is a member of the group B family of PAK serine/threonine kinases and is expressed in the cortex, striatum, hypothalamus, cerebellum, and hippocampus. It is involved in neuronal growth and filopodia formation. The absence of a significant aberrant phenotype in these mice may be due to the compensatory actions of *Pak6* (p21 protein (Cdc42/Rac)-activated kinase 6). When maintained on a background also lacking *Pak6* activity, these mice have impaired cognitive function and deficits in learning and memory retention. These mice may be useful for studying learning, memory, and locomotion.

Development

Control Suggestions

Selected References

Genetics

Pak5^{tm1Amin}

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:[Pak7](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

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

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6.129P2-*Pak5*^{tm1Amin}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #015827 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 Pak7<tm1Amin>	\$2,854.50

RELATED PRODUCTS AND SERVICES

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.

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Q U E S T I O N S A B O U T T E R M S O F U S E

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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