

FVB.129-*Ppp2r1a*^{tm3.1Wltr}/J

Stock No: 017475

 Congenic, Targeted Mutation

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

PLACE ORDER

[Email](#) [Download PDF](#) [Help](#)

studying tumor suppression, development, and aging.

Donating Investigator

Gernot Walter, UCSD

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

Ppp2r1a^{tm3.1Wltr}

Alele Type

Targeted (Humanized sequence)

Gene Symbol

Ppp2r1a

Gene Name

protein phosphatase 2, regulatory subunit A, alpha

VIEW GENETICS

RESEARCH APPLICATIONS

Cell Biology Research

Cancer 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

These *PP2A-A-alpha-E64G* mice contain the amino acid mutation E64G in exon 3 of the A-alpha subunit gene (*Ppp2r1a*) of protein phosphatase 2A (*PP2A*). This mutation was detected in a human breast carcinoma. Homozygotes are viable and fertile. *PP2A* holoenzyme is composed of a catalytic C subunit, a scaffolding A subunit, and a regulatory B subunit. It suppresses the development of lung cancer induced by the carcinogen benzopyrene. This tumor suppressor activity is p53-dependent. *PP2A* also prolongs the survival of mice expressing oncogenic K-ras^{G12D} (*v-Ki-ras2* Kirsten rat sarcoma). *PP2A-A-alpha-E64G* mice are a model for studying the tumor suppressor activity of B'-containing *PP2A* holoenzymes in mammary gland, lung, and other organs. The E64G mutation in this mouse strain renders the A α subunit defective in binding regulatory B' subunits whereas binding of B and B'' subunits is normal. These mice may be useful for studying tumor suppression, development, and aging.

Development

Control Suggestions

Selected References

Genetics

Ppp2r1a^{tm3.1Wltr}

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

Pyrosequencing:** [Ppp2r1a*E64G](#)

Standard PCR:[Ppp2r1a](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

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

[Additional Breeding and Husbandry Support](#)

Mating System

Heterozygote x Heterozygote

Citation

When using the FVB.129-*Ppp2r1a*^{tm3.1Wtr}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #017475 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 NOT-FOR-PROFIT & ACADEMIC PRICING

SERVICE/PRODUCT

DESCRIPTION

PRICE

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

FVB.129-Ppp2r1a<tm3.1W/tr>/J Frozen Embryo

\$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](#)

QUESTIONS ABOUT TERMS OF USE

ADDITIONAL USE RESTRICTIONS APPLY

NOT AVAILABLE TO COMPANIES OR FOR COMMERCIAL
Use of MICE only available to non-profit entities.

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org[Related Strains](#)

All

By Allele

By Gene

By Collection



DO YOU NEED BALB/c MICE?

Rely on JAX to provide the models you need, when you need them.

LEARN MORE



CONTACT



DONATE



SUBSCRIBE

JAX HOME CAREERS LEGAL INFORMATION

RESEARCH CENTERS MOUSE GENOME INFORMATICS


MOUSE PHENOME DATABASE

Leading the search for

TOMORROW'S CURES



©2021 THE JACKSON LABORATORY

Choose other country or region 

^ E E E D B

Did you find what you were looking for?

Yes No