

**B6.129P2(Cg)-Cdc14b<sup>tm1.2Pzg</sup> /J**

Stock No: **016896**

 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

Dr. Pumin Zhang, Baylor College of Medicine

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## GENETIC OVERVIEW

Genetic Background

Generation

*Cdc14b<sup>tm1.2Pzg</sup>*

**Alele Type**

Targeted (Null/Knockout)

**Gene Symbol**

*Cdc14b*

**Gene Name**

CDC14 cell division cycle 14B

VIEW GENETICS

## RESEARCH APPLICATIONS

Cancer Research

Cell Biology Research

Sensorineural 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

*Cdc14b* encodes a nuclear phosphatase that has been implicated in nuclear organization, centriole duplication, mitotic exit, cell cycle regulation, and DNA damage repair. Mice that are homozygous for this targeted mutation allele are viable, fertile, and normal in size.

Truncated gene product (mRNA), that is not expected to produce functional protein, is detected by RT-PCR analysis of MEFs from homozygotes. Homozygotes develop cataracts and kyphosis much earlier than wildtype controls and exhibit impaired contextual fear conditioning. Homozygous females exhibit impaired fertility, with smaller litter sizes than wildtype controls. MEFs isolated from homozygotes display defective DNA damage repair and slowed growth rate in later-passages.

### Development

### Control Suggestions

### Selected References

## Genetics

### *Cdc14b*<sup>tm1.2Pzg</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

Separated PCR:[Cdc14b](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

When maintaining a live colony, these mice can be bred as heterozygotes. Homozygous mice have reduced fertility (particularly for homozygous females) and smaller litter sizes. If maintaining the colony by breeding homozygous mice together, a larger colony size is recommended to account for this phenotype.

[Additional Breeding and Husbandry Support](#)

### Citation

When using the B6.129P2(Cg)-*Cdc14b*<sup>tm1.2Pzg</sup>/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #016896 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 or wildtype for <i>Cdc14b</i> <tm1.2Pzg>	\$2,854.50

## RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

B6.129P2(Cg)-Cdc14b<tm1.2Pzg>/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](#)

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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*Leading the search for*

# TOMORROW'S CURES



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