

B6;129S4-*Plk3*^{tm1Dai} /J

Stock No: **009691**

 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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oxidative and genotoxic stress.

Donating Investigator

Wei Dai, New York University Langone Medical Center

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GENETIC OVERVIEW

Genetic Background

Generation

Plk3^{tm1Dai}

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Plk3

polo like kinase 3

VIEW GENETICS

RESEARCH APPLICATIONS

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

Mice homozygous for this targeted mutation are born at a lower than predicted Mendelian ratio, however, newborn mice appear otherwise normal. Aging (>18 months) homozygotes develop spontaneous tumors in multiple organs. Tumor incidence is highest in lung although cancer is observed in kidney, liver and uterus. Lung and kidney tumors are composed predominantly of adenocarcinoma cells and leiomyosarcomas are found in the uterus. In general, tumors are large in size and well vascularized. Following hypoxia or nickel ion treatment, MEFs generated from this strain are hypersensitive to the induction of hypoxia inducible factor 1. This strain may be useful in studies of cancer and tumor development in response to oxidative and genotoxic stress.

Development

Control Suggestions

Selected References

Genetics

Plk3^{tm1Dai}

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:[Plk3](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

While maintaining a live colony, these mice are bred as heterozygotes. Homozygote matings may be possible.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6;129S4-*Plk3*^{tm1Dai}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #009691 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 <i>Plk3</i> <tm1Dai>	\$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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TOMORROW'S CURES



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