

B6;129X1-Dkk11^{tm1.1Mdp}/J

Stock No: **012711**

 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

Melvin L. DePamphilis, NICHD/NIH

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GENETIC OVERVIEW

Genetic Background

Generation

Dkk11^{tm1.1Mdp}

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Dkk11

dickkopf-like 1

VIEW GENETICS

RESEARCH APPLICATIONS

Reproductive 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 2-4 of the endogenous mouse Dickkopf-Like 1 (*Dkk1*) gene are removed, abolishing gene function. Homozygous mice are viable, normal in size, and do not display any gross physical or behavioral abnormalities. While homozygous females have no fertility problems, homozygous males have reduced fertilization efficiency. In these mice, DKKL1 expression was absent in developing trophectoderm and spermatocytes, and in the acrosome of mature sperm. This absence of expression did not result in infertility as it is not required for development of sperm or fertility in vivo. These mice may be useful for studying spermatogenesis and fertility.

Development

Control Suggestions

Selected References

Genetics

Dkk1^{tm1.1Mdp}

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

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, homozygous females may be bred to homozygous or heterozygous males. Homozygous males have reduced fertilization efficiency.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6;129X1-Dkk1^{tm1.1Mdp}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #012711 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 Dkk1<tm1.1Mdp>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6;129X1-Dkk1<tm1.1Mdp>/J Frozen Embryo	\$2595.00
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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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