

B6;129S-Nkd1^{tm1Kwha}/J

Stock No: **006958**

 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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transcriptional activity during embryonic development or in adult mice.

Donating Investigator

Keith Wharton, UT Southwestern Medical Center

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GENETIC OVERVIEW

Genetic Background

Generation

Nkd1^{tm1Kwha}

Alele Type

Targeted (Reporter,
Null/Knockout)

Gene Symbol

Nkd1

Gene Name

naked cuticle 1

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

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

Mice homozygous for this *nkd1^{lacZ}* mutant allele are viable and fertile with slightly reduced mean litter sizes. Northern blot of lung tissue, as well as western blot of embryonic tissue, confirms that the deleted exons (encoding the DM-binding domain) are not expressed in homozygous mutants. However, the endogenous promoter directs expression of the internal ribosome entry site- β -galactosidase (*IRES-lacZ*) fusion gene in a manner that closely mimics the patterns of the endogenous gene mRNAs. Because the naked cuticle (NKD) genes are considered targets for Wnt/ β -catenin signaling, these *nkd1^{lacZ}* mutant mice (as well as the similar *nkd2^{lacZ}* mutant strain; Stock No. 006960) may be useful as a reporter for Wnt/ β -catenin-dependent transcriptional activity during embryonic development or in adult mice.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Nkd1^{tm1Kwha}

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

Standard PCR:[Nkd1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, homozygous mice are bred together.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6;129S-*Nkd1*^{tm1Kwha}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #006958 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

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

B6;129S-Nkd1<tm1Kwha>/J Frozen Embryo

\$2595.00

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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.

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

All

By Allele

By Gene

By Collection



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