

129S-*Dicer1*^{tm1Mnn} /J

Stock No: 014167

 Coisogenic, 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

Jeff Mann, Murdoch Childrens Research Institute

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GENETIC OVERVIEW

Genetic Background

Generation

Dicer1^{tm1Mnn}

Alele Type

Targeted (Conditional ready
(e.g. floxed), No functional
change)

Gene Symbol

Dicer1

Gene Name

dicer 1, ribonuclease type III

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Cell Biology Research

Neurobiology 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 *Dicer1^C* mutant mice possess *loxP* sites flanking exons 25-27 of the Dcr-1 homolog (*Dicer1*) gene. Mice that are homozygous for this allele still contain a *fl*-flanked neo and are viable and fertile. DICER1 is an interference RNA (RNAi) enzyme required by the small temporal RNA pathways to produce the active small RNA component that represses gene expression. This enzyme is required for many cellular processes, including oocyte development. When bred to mice that express tissue-specific Cre recombinase, resulting offspring will have exons 25-27 deleted in the *cre*-expressing tissues.

For example, when bred to transgenic mice expressing Cre recombinase driven by the Zp3 (zona pellucida glycoprotein 3) promoter/enhanced elements (see Stock No. [003651](#) for example), oocyte mitosis is arrested at metaphase, leading to oocyte degradation and infertility.

When bred to a strain expressing Cre recombinase in embryonic primordial germ cells. (see Stock No. [008569](#) for example), this mutant mouse strain may be useful in studies of chromosome segregation and meiotic maturation.

Development

Control Suggestions

Selected References

Genetics

Dicer1^{tm1Mnn}

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:[Dicer1alternate1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

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

[Additional Breeding and Husbandry Support](#)

Citation

When using the 129S-*Dicer1*^{tm1Mnn}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #014167 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 Dicer1<tm1.1Mnn>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	129S-Dicer1<tm1Mnn>/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

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