

B6.129X1-Notch1^{tm2Rko}/GridJ

Stock No: 007181 | Notch1^{flax}

 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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these conditional knockout mice may be useful in generating early neural progenitor cell-specific mutants. This mutant strain may be useful in studies such as apoptosis in neural development and loss of Notch1 heterozygosity.

Donating Investigator

Raphael Kopan, Cincinnati Children's Hospital Medical Center

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GENETIC OVERVIEW

Genetic Background

Generation

Notch1^{tm2Rko}

Alele Type

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

Gene Symbol

Notch1

Gene Name

notch 1

VIEW GENETICS

RESEARCH APPLICATIONS

Cell Biology Research

Research Tools

Developmental 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 "floxed" *Notch1* allele (fN1) are viable and fertile. These mice possess *loxP* sites on either side of exon 1 of the targeted gene. When bred to mice with a Cre recombinase gene, exon 1 of the targeted gene is deleted in the Cre expressing tissue(s). These conditional knockout mice may be useful in generating tissue-specific mutants for studying the development of a wide range of tissues: for example, when crossed to a strain expressing Cre recombinase primarily in the nervous system (see Stock No. [003771](#)), this mutant strain may be useful in studies of apoptosis in neural development.

When crossed to a strain expressing a differential Cre mediated reporter protein labeling: Notch1 signaling in actively cycling stem/progenitor cells (see Stock No. [006953](#)), this mutant strain may be useful in studies of loss of Notch1 heterozygosity.

When bred to mice carrying Tg(Wnt1-cre)11Rth (Stock No. [009107](#)), Cre recombinase expression in the midbrain and developing neural tube results in postnatal lethality.

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.

Development

Control Suggestions

Selected References

Genetics

Notch1^{tm2Rko}

– 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:[Notch1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Mutant mice were bred to C57BL/6J mice to generate this congenic strain. When maintaining the live congenic colony, mice may be bred as homozygotes.

[Additional Breeding and Husbandry Support](#)

Citation

When using the [Notch1^{fllox}](#) mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #007181 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



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Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous for Notch1<tm2Rko>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.129X1-Notch1<tm2Rko>/GridJ Frozen Embryo	\$2595.00
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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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LICENSING INFORMATION

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Email: TechTran@jax.org

Related Strains

- All
- By Allele
- By Gene
- By Collection



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