

STOCK *Gt(ROSA)26Sor^{tm1(Notch1)Dam}/J*

Stock No: 008159

 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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useful in generating conditional mutations for studying the effects of Notch pathway activation.

Donating Investigator

Douglas A Melton, Harvard University

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GENETIC OVERVIEW

Genetic Background

Generation

Gt(ROSA)26Sor^{tm1(Notch1)Dam}

Alele Type

Targeted (Conditional ready (e.g. floxed), Reporter, Inserted expressed sequence)

Gene Symbol

Gt(ROSA)26Sor

Gene Name

gene trap ROSA 26, Philippe Soriano

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

These mice contain a sequence encoding an intracellular portion of the mouse *Notch1* gene (amino acids 1749-2293), but lacking the c-terminal PEST domain, and Green Fluorescent Protein, GFP, inserted into the *GT(ROSA)26Sor* locus. Expression of the *Notch1* fragment and GFP is blocked by a loxP-flanked STOP fragment placed between the coding sequence and the *GT(ROSA)26Sor* promoter. The GFP expression is localized to the nucleus by an IRES sequence. The truncated cytoplasmic fragment encoded by the *Notch1* sequence causes constitutive signaling activity. When used in conjunction with a Cre recombinase-expressing strain, this strain is useful in generating tissue-specific mutants for studying the effects of Notch pathway activation. Homozygous mutant mice are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities.

For example, when crossed to a strain expressing a tamoxifen inducible Cre recombinase in all cells that express *Shh* (see Stock No. [005623](#)), this mutant mouse strain may be useful in studies of Notch signaling.

When crossed to a strain expressing a tamoxifen inducible Cre recombinase in all cells that express *Neurog3* such as spermatogonia and pancreatic islets cells (see Stock No. [008119](#)), this mutant mouse strain may be useful in studies of Notch signaling.

When bred to a strain expression interferon inducible Cre recombinase in liver and lymphocytes (see Stock No. [003556](#) for example), this mutant mouse strain may be useful in studies of Notch signaling in lymphocyte development.

Development

Expression Data

Control Suggestions

Selected References

Genetics

[+](#) *Gt(ROSA)26Sor^{tm1(Notch1)Dam}*

⊖ 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

Probe:[Gt\(rosa\)26sor Probe](#)

Standard PCR:[Gt\(ROSA\)26Sor](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these mice can be bred as homozygotes.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the STOCK *Gt(ROSA)26Sor^{tm1(Notch1)Dam}* /J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #008159 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

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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 Gt(ROSA)26Sor<tm1(Notch1)Dam>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	STOCK Gt(ROSA)26Sor<tm1(Notch1)Dam>/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.

🔍 Terms Of Use

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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

ADDITIONAL USE RESTRICTIONS APPLY

Use of MICE by companies or for-profit entities requires a license prior to shipping.

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

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All

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