

STOCK Tg(CAG-Bgeo,-NOTCH1,-EGFP)1Lbe/J

Stock No: **006850** | Cre-conditional IC-Notch

 Transgenic

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

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expression enabling tissue-specific studies of NOTCH expression using appropriate Cre mice.

Donating Investigator

Corrinne Lobe, Sunnybrook & Women's College HSC

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(CAG-Bgeo,-NOTCH1,-EGFP)1Lbe

Alele Type

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

VIEW GENETICS

RESEARCH APPLICATIONS

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

Important Note

The donating investigator reports that some animals genotyping positive for the transgene may not express the transgene; it is strongly recommended to also test animals by lacZ staining of ear notches.

Detailed Description

Mice hemizygous for this Cre-conditional IC-Notch (or Z/EG-Notch) transgene are viable and fertile. Homozygotes die *in utero*, presumably due to high *lacZ* expression. Prior to Cre-mediated excision of the "floxed" STOP sequence, high expression of *lacZ* is observed in cells and tissues. When bred to Cre recombinase expressing mice, the STOP sequence (and beta-geo) is removed in the resulting offspring, allowing transcription/co-expression of both the intracellular human *NOTCH1* (IC-Notch) and EGFP to proceed in the Cre recombinase expressing cells. For example, endothelial expression of IC-Notch using different Cre-transgenic matings is associated with neural, somite and angiogenic defects, infertility in females, and embryonic lethality in the resulting offspring. These transgenic mice may be useful for global expression of *lacZ* or, when crossed to a Cre recombinase expressing strain, for studying the role of Notch signaling during both embryonic development and adulthood.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(CAG-Bgeo,-NOTCH1,-EGFP)1Lbe

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:[Fluorescent Proteins \(Generic GFP\)](#)

Standard PCR:[Fluorescent Proteins \(Generic GFP\)](#)

Standard PCR:[Tg\(CAG-Bgeo,-NOTCH1,-EGFP\)1Lbe](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, hemizygotes are bred to wildtype siblings. Homozygous mice die *in utero* presumably due to high *lacZ* expression.

The donating investigator reports that some animals genotyping positive for the transgene may not express the transgene; it is strongly recommended to also test animals by lacZ staining of ear notches.

[Additional Breeding and Husbandry Support](#)

Citation

When using the Cre-conditional IC-Notch mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #006850 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 | Hemizygous or Non carrier for Tg(CAG-Bgeo,-NOTCH1,-EGFP)1Lbe | \$2,854.50 |

RELATED PRODUCTS AND SERVICES

| | | |
|-------------------------------------|--------------------------------------|-----------|
| Frozen Mouse Embryo | STOCK Tg(CAG-Bgeo-NOTCH1-EGFP)1Lbe/J | \$2595.00 |
|-------------------------------------|--------------------------------------|-----------|

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LICENSING INFORMATION

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Email: TechTran@jax.org

Related Strains

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- By Allele
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- By Collection



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