

C57BL/6J-Tg(Neurod1-cre/ERT2)M1Fcal/J

Stock No: 025867

 Coisogenic, Transgenic

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

Federico Calegari, DFG–Research Center and Cluster of Excellence for Regenerative Therapies

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(Neurod1-cre/ERT2)M1Fcal

Alele Type

Transgenic (Recombinase-expressing, Inducible)

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

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

Mice homozygous for the BAC *Neurod1-CreER^{T2}* transgene are viable and fertile. Expression of *Cre-ER^{T2}* is directed by the murine (neurogenic differentiation 1) *Neurod1* promoter/enhancer regions. NEUROD1 is a transcription factor involved in developmental programs of the gastrointestinal tract, pancreas, neurosensory, and central nervous system. Restricted to the cytoplasm, *Cre-ER^{T2}* can only gain access to the nuclear compartment after exposure to tamoxifen. When these mice are bred with mice containing *loxP*-flanked sequence, tamoxifen-inducible, *Cre*-mediated recombination will result in deletion of the floxed sequences in the *Cre*-expressing cells of the offspring.

For example, when bred to mice expressing *cre*-inducible enhanced green fluorescent protein (EGFP), *cre* activity is seen in the resulting mice at E13.5 in neural tube, eye, olfactory epithelium, cranial ganglia, and dorsal root ganglia. In adults expression is seen in the neurogenic niche of the hippocampus and in a subset of mature neurons in the cortex, olfactory bulb, thalamus, hypothalamus, and cerebellum.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(*Neurod1-cre/ERT2*)M1Fcal

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: [Tg\(Neurod1-cre/ERT2\)M1Fcal](#)
[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 C57BL/6J-Tg(Neurod1-cre/ERT2)M1Fcal/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #025867 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	Hemiozygous or Non carrier for Tg(Neurod1-cre/ERT2)M1Fcal/	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	C57BL/6J-Tg(Neurod1-cre/ERT2)M1Fcal/J	\$2595.00
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PAYMENT TERMS AND CONDITIONS

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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

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[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

Related Strains

All

By Allele

By Gene

By Collection



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