

B6.Cg-Tg(Eno2-cre)39Jme/J

Stock No: 006663 | NSE39-Cre

 Transgenic

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

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and directed to neurons with expression in many tissue types.

Donating Investigator

IMR Colony, The Jackson Laboratory

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(Eno2-cre)39Jme

Alele Type

Transgenic (Recombinase-expressing)

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Neurobiology Research

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 hemizygous for this NSE39-Cre transgene are viable, fertile, normal in size, and do not display any gross physical or behavioral abnormalities. These NSE39-Cre mice harbor a transgenic insert consisting of the *cre* recombinase gene under the control of the promoter region of the rat neuron specific enolase (NSE or *Eno2*) gene. As such, Cre recombinase activity is directed to neurons with expression in many tissue types. When bred with mice containing a *loxP*-flanked sequence of interest, Cre-mediated recombination will result in deletion of the flanked genome.

Specifically, these NSE39-Cre transgenic mice may also be useful in studies of spinal muscular atrophy (SMA) along with mice harboring a conditional (floxed) *Smn1* gene (see Stock No. [006138](#) or Stock No. [006146](#)).

Additional SMA strains expressing *cre* in striated muscle are available as well (see Stock No. [005936](#), Stock No. [006139](#), and Stock No. [006149](#)).

NSE39-Cre transgenic mice are available on different genetic backgrounds (see Stock No. [005938](#), Stock No. [006297](#), and Stock No. [006663](#)). 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 NSE39-Cre phenotype could vary from that originally described on a mixed genetic background. We will modify the strain description if necessary as published results become available.

Importation of this model was supported by the Spinal Muscular Atrophy Foundation. Creation and development was supported by the National Institute of Health and Medical Research of France (Inserm) and the Association Française contre les Myopathies (AFM). An additional help was provided by Families of SMA (U.S.A.) and Andrew's Buddies (U.S.A.).

Development

Expression Data

Control Suggestions

Selected References

Genetics

[+ Tg\(Eno2-cre\)39Jme](#)

[- 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:[Generic Cre Probe](#)

Standard PCR:[Generic Cre](#)

Standard PCR:[Generic Cre Melt Curve Analysis](#)

Standard PCR:[Tg\(Eno2-cre\)39Jme](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

After arriving at The Jackson Laboratory on a mixed background, mutant mice were bred to wildtype C57BL/6J (Stock No. [000664](#)) for 5-10 generations. The resulting backcrossed hemizygotes were maintained thereafter by breeding transgenic mice to either wildtype siblings from the colony or C57BL/6J.

[Additional Breeding and Husbandry Support](#)

Citation

When using the NSE39-Cre mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #006663 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	Hemizygous or Non carrier for Tg(Eno2-cre)39Jme	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.Cg-Tg(Eno2-cre)39Jme/J	\$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

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LICENSING INFORMATION

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Email: TechTran@jax.org

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