



B6.Cg-Tg(Nes-cre)1Kln/J

Stock No: 003771 | nestin-Cre

Congenic, Transgenic



AVAILABLE NOW

PLACE ORDER

Live mice available in varying quantities. Ask Customer Service for details.

Overview

Also Known As: nestin-Cre

This strain is commonly known as nestin-Cre. Nestin promoter driven Cre recombinase is expressed in the central and peripheral nervous system, including neuronal and glial cell precursors. There are reports of Cre recombinase activity in a few isolated kidney and heart cells. Hemizygous nestin-cre mice exhibit mild hypopituitarism, growth retardation, impaired fear response, and a metabolic phenotype. Mice also show a strong impairment in the acquisition of both contextual- and cued-fear conditioning.

Donating Investigator

Rudiger Klein, Max-Planck Institute of Neurobiology

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

[N6+N6F15](#)

(2019-06-17 00:00:00)

Tg(Nes-cre)1Kln

Allele Type

Transgenic (Recombinase-expressing)

[VIEW GENETICS](#)

RESEARCH APPLICATIONS

Research Tools

Neurobiology Research

Developmental Biology Research

[VIEW ALL RESEARCH APPLICATIONS](#)

BASE PRICE

Starting at:

\$270.00 Domestic price for female 4-week

348.51 Domestic price for breeder pair

[VIEW PRICE LIST](#)

[- Details](#)

[Detailed Description](#)

These transgenic mice express Cre recombinase under the control of the rat nestin promoter and enhancer. Mice that are hemizygous for the transgenic insert are viable and fertile. Nestin-cre mice exhibit mild hypopituitarism, growth retardation, impaired fear response, and a metabolic phenotype. Also, a strong impairment in the acquisition of both contextual- and cued-conditioned fear is observed. Declercq et. al. suggest that the phenotype is the result of a human growth hormone minigene placed in the transgenic construct downstream of Cre recombinase. (PLOS ONE, 2015) Initial studies utilizing a reporter strain carrying a beta galactosidase transgene whose expression is dependent on Cre-mediated recombination indicate that *cre* is primarily expressed in the central and peripheral nervous system with a few isolated kidney and heart cells also expressing activity. The donating investigator indicates that Cre recombinase activity is present in nervous tissue by embryonic day 11. The transgene insertion location is on Chromosome 12, as determined by FISH analysis, view [pdf](#).

[+ Development](#)

[+ Expression Data](#)

[+ Control Suggestions](#)

[+ Selected References](#)

[- Genetics](#)

[+ Tg\(Nes-cre\)1Kln](#)

[- Disease/Phenotype](#)

[+ Disease Terms](#)

[+ Research Areas By Genotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

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[- Technical Support](#)

C H A T O  F L I N E

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

QPCR:[Cre Qpcr](#)

Standard PCR:[Tg\(Nes-cre\)1Kln-Chr12](#)

Probe:[Tg\(Nes-cre\)1Kln-Chr12](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

When maintaining a live colony, hemizygous mice may be bred together, to wildtype siblings, or to C57BL/6J inbred mice (Stock No. [000664](#)). The coat color expected from breeding is black.

[Additional Breeding and Husbandry Support](#)

Mating System

+/+ sibling x Hemizygote

Hemizygote x +/+ sibling

Citation

When using the nestin-Cre mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #003771 in your Materials and Methods section.

[Facility Barrier Level Descriptions](#)

 [AX11 \(Maximum\)](#)

🔍 Pricing & Availability



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Live Mouse			
AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Hemizygous for Tg(Nes-cre)1Kln	\$270.00
	Male	Hemizygous for Tg(Nes-cre)1Kln	\$270.00
4 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
5 weeks	Female	Hemizygous for Tg(Nes-cre)1Kln	\$270.00
	Male	Hemizygous for Tg(Nes-cre)1Kln	\$270.00
5 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
6 weeks	Female	Hemizygous for Tg(Nes-cre)1Kln	\$270.00
	Male	Hemizygous for Tg(Nes-cre)1Kln	\$270.00
6 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
7 weeks	Female	Hemizygous for Tg(Nes-cre)1Kln	\$270.00
	Male	Hemizygous for Tg(Nes-cre)1Kln	\$270.00
7 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
8 weeks	Female	Hemizygous for Tg(Nes-cre)1Kln	\$270.00
	Male	Hemizygous for Tg(Nes-cre)1Kln	\$270.00
8 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51

Breeder Pair		
SEX	GENOTYPE	PRICE
Female	Hemizygous for Tg(Nes-cre)1Kln	\$348.51
Male	Noncarrier	
Female	Noncarrier	\$348.51
Male	Hemizygous for Tg(Nes-cre)1Kln	

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Terms of Use

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