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

Stock No: 003771 | nestin-Cre

AVAIL ABLE 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
### GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tg(Nes-cre)1Kln</td>
<td>N6/N6F15</td>
</tr>
<tr>
<td></td>
<td>(2019-06-17 00:00:00)</td>
</tr>
</tbody>
</table>

**Allele Type**

Transgenic (Recombinase-expressing)

---

### RESEARCH APPLICATIONS

- Research Tools
- Neurobiology Research
- Developmental Biology Research

---

### BASE PRICE

Starting at:

- $270.00 Domestic price for female 4-week
- $485.51 Domestic price for breeder pair

---

### 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

---
Genotyping Protocols
MELT: Tg(Nes-cre)1Kln-Chr12
QPCR: Generic Cre Quantitative PCR
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 these mice as a 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
## Live Mouse

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 weeks</td>
<td>Female</td>
<td>Hemizygous for Tg(Nes-cre)1Kln</td>
<td>$270.00</td>
</tr>
<tr>
<td>4 weeks</td>
<td>Male</td>
<td>Hemizygous for Tg(Nes-cre)1Kln</td>
<td>$270.00</td>
</tr>
<tr>
<td>4 weeks</td>
<td>Female</td>
<td>Noncarrier</td>
<td>$78.51</td>
</tr>
<tr>
<td>4 weeks</td>
<td>Male</td>
<td>Noncarrier</td>
<td>$78.51</td>
</tr>
<tr>
<td>5 weeks</td>
<td>Female</td>
<td>Hemizygous for Tg(Nes-cre)1Kln</td>
<td>$270.00</td>
</tr>
<tr>
<td>5 weeks</td>
<td>Male</td>
<td>Hemizygous for Tg(Nes-cre)1Kln</td>
<td>$270.00</td>
</tr>
<tr>
<td>5 weeks</td>
<td>Female</td>
<td>Noncarrier</td>
<td>$78.51</td>
</tr>
<tr>
<td>5 weeks</td>
<td>Male</td>
<td>Noncarrier</td>
<td>$78.51</td>
</tr>
<tr>
<td>6 weeks</td>
<td>Female</td>
<td>Hemizygous for Tg(Nes-cre)1Kln</td>
<td>$270.00</td>
</tr>
<tr>
<td>6 weeks</td>
<td>Male</td>
<td>Hemizygous for Tg(Nes-cre)1Kln</td>
<td>$270.00</td>
</tr>
<tr>
<td>6 weeks</td>
<td>Female</td>
<td>Noncarrier</td>
<td>$78.51</td>
</tr>
<tr>
<td>6 weeks</td>
<td>Male</td>
<td>Noncarrier</td>
<td>$78.51</td>
</tr>
<tr>
<td>7 weeks</td>
<td>Female</td>
<td>Hemizygous for Tg(Nes-cre)1Kln</td>
<td>$270.00</td>
</tr>
<tr>
<td>7 weeks</td>
<td>Male</td>
<td>Hemizygous for Tg(Nes-cre)1Kln</td>
<td>$270.00</td>
</tr>
<tr>
<td>7 weeks</td>
<td>Female</td>
<td>Noncarrier</td>
<td>$78.51</td>
</tr>
<tr>
<td>7 weeks</td>
<td>Male</td>
<td>Noncarrier</td>
<td>$78.51</td>
</tr>
<tr>
<td>8 weeks</td>
<td>Female</td>
<td>Hemizygous for Tg(Nes-cre)1Kln</td>
<td>$270.00</td>
</tr>
<tr>
<td>8 weeks</td>
<td>Male</td>
<td>Hemizygous for Tg(Nes-cre)1Kln</td>
<td>$270.00</td>
</tr>
<tr>
<td>8 weeks</td>
<td>Female</td>
<td>Noncarrier</td>
<td>$78.51</td>
</tr>
<tr>
<td>8 weeks</td>
<td>Male</td>
<td>Noncarrier</td>
<td>$78.51</td>
</tr>
</tbody>
</table>

## Breeder Pair

<table>
<thead>
<tr>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female</td>
<td>Hemizygous for Tg(Nes-cre)1Kln</td>
<td>$348.51</td>
</tr>
<tr>
<td>Male</td>
<td>Noncarrier</td>
<td></td>
</tr>
<tr>
<td>Female</td>
<td>Noncarrier</td>
<td>$348.51</td>
</tr>
<tr>
<td>Male</td>
<td>Hemizygous for Tg(Nes-cre)1Kln</td>
<td></td>
</tr>
</tbody>
</table>

### Payment Terms and Conditions

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered...
are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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.

Terms Of Use

Terms of Use
General Terms and Conditions

QUESTIONS ABOUT TERMS OF USE

Licensing Information
Phone: 207-288-6470
Email: TechTran@jax.org

JAX® Mice, Products & Services Conditions of Use

“MICE” means mouse strains, their progeny derived by inbreeding or crossbreeding, unmodified derivatives from mouse strains or their progeny supplied by The Jackson Laboratory (“JACKSON”), “PRODUCT(S)” means biological materials supplied by JACKSON, and their derivatives. “SERVICES” means projects conducted by JACKSON for other parties that may include but are not limited to the use of MICE or PRODUCTS. “RECIPIENT” means each recipient of MICE, PRODUCTS, or SERVICES provided by JACKSON including each institution, its employees and other researchers under its control. MICE or PRODUCTS shall not be: (i) used for any purpose other than internal research, (ii) sold or otherwise provided to any third party for any use, or (iii) provided to any agent or other third party to provide breeding or other services. Acceptance of MICE, PRODUCTS or SERVICES from JACKSON shall be deemed as agreement by RECIPIENT to these conditions, and departure from these conditions requires JACKSON’s prior written authorization.

No Warranty

MICE, PRODUCTS AND SERVICES ARE PROVIDED “AS IS”. JACKSON EXTENDS NO WARRANTIES OF ANY KIND, EITHER EXPRESS, IMPLIED, OR STATUTORY, WITH RESPECT TO MICE, PRODUCTS OR SERVICES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY OF NON-INFRINGEMENT OF ANY PATENT, TRADEMARK, OR OTHER INTELLECTUAL PROPERTY RIGHTS.

Credit for PRODUCTS or SERVICES

In case of dissatisfaction for a valid reason and claimed in writing by a purchaser within ninety (90) days of receipt of, PRODUCTS or SERVICES, JACKSON will, at its option, provide credit or replacement for the PRODUCT received or the SERVICES provided; JACKSON makes no other representations and this shall be the exclusive remedy of the purchaser. Please note specific policy for live mice.

Animal Care and Use for SERVICES

Consistent with the requirement for a written understanding regarding animal care and use, the JACKSON Animal Care and Use Committee will review the animal care and use protocol(s) associated with any SERVICES to be performed at JACKSON, and JACKSON shall have ultimate responsibility and authority for the care of animals while on site or in JACKSON custody.

No Liability

In no event shall JACKSON, its trustees, directors, officers, employees, and affiliates be liable for any causes of action or damages, including any direct, indirect, special, or consequential damages, arising out of the provision of MICE, PRODUCTS, or SERVICES, including economic damage or injury to property and lost profits, and including any damage arising from acts or negligence on the part of JACKSON, its agents or employees. Unless prohibited by law, in purchasing or receiving MICE, PRODUCTS, or SERVICES from JACKSON, purchaser or recipient, or any party claiming by or through them, expressly releases and discharges JACKSON from all such causes of action or damages, and further agrees to defend and indemnify JACKSON from any costs or damages arising out of any third party claims.

MICE, PRODUCTS or SERVICES are to be used in a safe manner and in accordance with all applicable governmental rules and
regulations.
The foregoing represents the General Terms and Conditions applicable to JACKSON’s MICE, PRODUCTS or SERVICES. In addition, special terms and conditions of sale of certain MICE, PRODUCTS, or SERVICES may be set forth separately in JACKSON web pages, catalogs, price lists, contracts, and/or other documents, and these special terms and conditions shall also govern the sale of these MICE, PRODUCTS and SERVICES by JACKSON, and by its licensees and distributors. Acceptance of delivery of MICE, PRODUCTS or SERVICES shall be deemed agreement to these terms and conditions. No purchase order or other document transmitted by purchaser or recipient that may modify the terms and conditions hereof, shall be in any way binding on JACKSON, and instead the terms and conditions set forth herein, including any special terms and conditions set forth separately, shall govern the sale of MICE, PRODUCTS or SERVICES by JACKSON.

Related Strains

All

By Allele

By Gene

By Collection

All Related Strains

DO YOU NEED BALB/c MICE?
Rely on JAX to provide the models you need, when you need them.

LEARN MORE

The Jackson Laboratory

CONTACT
DONATE
SUBSCRIBE

JAX HOME CAREERS PRIVACY POLICY TERMS OF USE SEND FEEDBACK
Leading the search for
TOMORROW'S CURES