B6;129S6-Chat\textsuperscript{tm2(cre)Lowl}\textsuperscript{J}

Stock No: 006410 | ChAT-IRESCre, ChAT-IRESCre::frt-neo-frt

��色 Targeted Mutation

AVAILABLE NOW

PLACE ORDER

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

Overview

Also Known As: ChAT-IRESCre, ChAT-IRESCre::frt-neo-frt

ChAT-IRESCre knock-in mice express Cre recombinase in cholinergic neurons, without disrupting endogenous Chat expression. These mice may be useful in neurobiological research of motor function, learning and memory, Alzheimer’s disease, and Down syndrome, as well as obesity and diabetes research.

The Jackson Laboratory Repository has two ChAT-IRESCre knock-in alleles from Dr. Bradford Lowell: ChAT-IRESCre::frt-neo-frt (Chat\textsuperscript{tm2(cre)Lowl}; Stock Nos. 006410/018957/028861) and ChAT-IRESCre::neo (Chat\textsuperscript{tm1(cre)Lowl}; Stock No. 031661). The donating investigator reports that the presence of the neo cassette may result in ectopic Cre expression, and they have never observed any ectopic expression in their ChAT-IRESCre::neo mice (January 2018).
Donating Investigator
Bradford B. Lowell, Beth Israel Deaconess Med Cntr (Harvard)

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tr>
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**Chat**<sup>tm2(cre)Lowl</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tr>
<td>Targeted (Recombinase-expressing)</td>
<td>Chat</td>
<td>choline acetyltransferase</td>
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RESEARCH APPLICATIONS
Research Tools
Neurobiology Research

BASE PRICE
Starting at:

$279.00 Domestic price for female 4-week

Details

**Detailed Description**

The Jackson Laboratory Repository has two Chat-ires-Cre knock-in alleles from Dr. Bradford Lowell (Beth Israel Deaconess Medical Center / Harvard): Chat-ires-Cre::frt-neo-frt (Chat<sup>tm2(cre)Lowl</sup>; Stock Nos. 006410/018957/028861) and Chat-ires-Cre::neo (Chat<sup>tm1(cre)Lowl</sup>; Stock No. 031661).

The donating investigator reports that the presence of the neo cassette may result in ectopic Cre expression, and they have never observed any ectopic expression in their Chat-ires-Cre::neo mice (January 2018).

The strain description below summarizes the phenotype of Chat-ires-Cre::frt-neo-frt mice (Chat<sup>tm2(cre)Lowl</sup>; Stock No. 006410).
Mice that are homozygous for the ChAT-IRES-Cre::frt-neo-frt knock-in allele are viable and fertile. An “IRES-Cre” sequence is inserted downstream of the stop codon such that cre expression is controlled by the endogenous Chat gene promoter. Chat gene expression, however, is unaffected. Cre recombinase activity is reported in all cholinergic neurons. These mice may be useful for “Cre-lox” technology applications in neurobiology, including studies of motor function, learning and memory, Alzheimer’s disease, and Down syndrome, and in obesity and diabetes research.

- Genotyping Protocols
  - QPCR: Generic Cre Quantitative PCR
  - MELT: Chat\textsuperscript{tm2[creLowl]}
- Dietary Information
  - LabDiet\textsuperscript{®} 5K52 formulation (6% fat)
- Breeding Considerations
  - When maintaining a live colony at The Jackson Laboratory Repository, homozygous mice may be bred together.
- Additional Breeding and Husbandry Support
- Mating System
  - Homozygote x Homozygote
### Pricing & Availability

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

**Available Now**

#### Domestic

<table>
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<th>AGE</th>
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#### International

Pricing effective for USA, Canada and Mexico shipping destinations

**Related Products and Services**

**Frozen Mouse Embryo**

$2,595.00 per straw or vial

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Email: TechTran@jax.org

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### Related Strains

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All Related Strains