B6;129S-Cartpt^{tm1(cre)Khe}/J

Stock No: 028533 | Cart-ires2-Cre-D

Targeted Mutation

AVAILABLE

PLACE ORDER

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

Overview

Also Known As: Cart-ires2-Cre-D
Cart-ires2-Cre-D knockin mice have Cre recombinase expression directed to CART prepropeptide-expressing cells, without disrupting endogenous Cartpt expression. These mice may be used to generate conditional mutations for studying gain-or-loss of function and/or fate mapping in subgroups of brain tissues (including cortex, cerebral nuclei, hypothalamus and midbrain) in regards to feeding, appetite and stress response, as well as gene regulation by cocaine and other drugs.

Donating Investigator
GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>N4dpN1F7</td>
<td>(2019-03-12 00:00:00)</td>
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</tbody>
</table>

**Cartpt<sup>tm1.1(cre)Hze</sup>**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Targeted (Recombinase-expressing)</td>
<td>Cartpt</td>
<td>CART prepropeptide</td>
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</tbody>
</table>

RESEARCH APPLICATIONS

Research Tools
Cancer Research
Neurobiology Research

BASE PRICE
Starting at:

- $255.00 Domestic price for female
- $333.51 Domestic price for breeder pair

Details

**Detailed Description**

The Cartpt gene encodes CART prepropeptide isoforms that are processed into multiple biologically active peptides. Expression of this gene is regulated by cocaine and other drugs, and is associated with feeding/appetite and stress response.

The Cart-IRES2-Cre-D knockin mutation has an IRES2 sequence and a Cre recombinase gene inserted downstream of the translational STOP codon of the Cartpt gene. As such, Cart-IRES2-Cre-D mice have both endogenous gene and Cre recombinase expression directed to CART prepropeptide-expressing cells by the endogenous promoter/enhancer elements of the Cartpt locus. When Cart-IRES2-Cre-D mice are bred with mice containing loxP-flanked sequences, Cre-mediated recombination will result in
deletion of the floxed sequences in Cartpt-expressing cells in the offspring.

The donating investigator reports Cre recombinase expression and activity largely recapitulates the endogenous Cartpt gene’s unique expression pattern in areas such as cortex, cerebral nuclei, hypothalamus and midbrain.

The donating investigator did not examine cre expression in tissues other than brain.

Heterozygous mice are viable and fertile with no reported gross physical or behavioral abnormalities. To date (December 2015), it has not been attempted to make this strain homozygous.

Genotyping Protocols
SEPARATED MELT: Cartpt^{lim1.1(cre)His} alternate2
Genotyping resources and troubleshooting

Dietary Information
New Diet as of March 2015: Lab Diet® 5K0Q (6% fat)

Breeding Considerations
When maintaining a live colony, heterozygous mice may be bred together, to wildtype mice from the colony or to C57BL/6J inbred mice (Stock No. 000664). To date (December 2015), it has not been attempted to make this strain homozygous.

Additional Breeding and Husbandry Support
Mating System
Wild-type x Heterozygote
Heterozygote x Wild-type

Citation
When using the first CRISPR-Cas9 mouse strain in a publication, please cite the originating article(s) and include JAX stock #028533 in your Materials and Methods section.

AX10 (Standard)

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

Domestic International
Pricing effective for USA, Canada and Mexico shipping destinations

Live Mouse

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<tr>
<th>AGE</th>
<th>SEX</th>
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<td>Male</td>
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<tr>
<td>Approx 4-8 weeks</td>
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Breeder Pair

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</tbody>
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Related Products and Services

Frozen Mouse Embryo $2,595.00 per straw or vial

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Related Strains

- All
- By Allele
- By Gene
- By Collection

All Related Strains

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