STOCK Cck<sup>tm1.1(cre)Zbh</sup>/J

Stock No: 012706 | CCK-ires-Cre

- Targeted Mutation

PLACE ORDER

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

Overview

Also Known As: CCK-ires-Cre

The Cck-ires-Cre knock-in allele has an internal ribosome entry site and Cre recombinase in the 3' UTR of the cholecystokinin locus (Cck). As such, Cre recombinase expression is directed to Cck-expressing cells (cholecystokinin positive neurons) by the endogenous promoter/enhancer elements of the cholecystokinin locus.

Donating Investigator

Z. Josh Huang, Cold Spring Harbor Laboratory
### Genetic Overview

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>F7xF19</td>
</tr>
<tr>
<td></td>
<td>(2019-03-18 00:00:00)</td>
</tr>
</tbody>
</table>

**Cck<sup>tm1.1(cre)Zjh</sup>**

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

### Research Applications

- Research Tools
- Neurobiology Research

### Base Price

**Starting at:**

- $255.00 Domestic price for female

### Details

#### Detailed Description

The Cck-ires-Cre allele harbors an internal ribosome entry site and Cre recombinase in the 3' UTR of the cholecystokinin locus (Cck). As such, Cre expression is directed by the endogenous Cck promoter/enhancer elements. When Cck-ires-Cre mice are bred with mice containing loxp-flanked sequences, Cre-mediated recombination will result in deletion of the floxed sequences in the Cck-expressing cells in the offspring. Cck expression from the Cck-ires-Cre allele has not been evaluated. Additional phenotype information described below.

In 2010, the donating investigator reported Cre recombinase activity is specific and efficient (largely recapitulates the endogenous Cck expression pattern with highly efficient recombination). They report Cre recombinase activity is observed in cholecystokinin positive neurons (interneurons) of the cortex. The donating investigator did not examine cre expression in tissues other than brain (October 2012). Cck expression from the Cck-ires-Cre allele was not evaluated. They also reported that homozygous mice are viable and fertile.

For characterization information, see images at the Allen Institute for Brain Science website ([Cck-ires-Cre images](#)).

If the recombinase activity pattern of this allele is further characterized by the Genetic Resource Science group at The Jackson Laboratory, it will be reported in the next update.
Laboratory, such findings will be reported on the Mouse Genome Informatics (MGI) Allele Detail entry (\textit{Cck}^{tm1.1{cre}Zjh}). This same information would also be found searching the MGI Recombinase Activity database.

### Genotyping Protocols
Standard PCR: \textit{Cck}^{tm1.1{cre}Zjh}
Melt Curve Analysis: \textit{Cck}^{tm1.1{cre}Zjh}

### Dietary Information
LabDiet\textsuperscript{\textregistered} 5K52 formulation (6% fat)

### Breeding Considerations
When maintaining a live colony, homozygous mice may be bred together.

### Mating System
Homozygote x Homozygote

When using the CCK mouse strain in a publication, please cite the originating article(s) and include JAX stock #012706 in your Materials and Methods section.
Facility Barrier Level Descriptions
- AX10 (Standard)

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

Available

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

<table>
<thead>
<tr>
<th>Live Mouse</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Homozygous for Cck</td>
<td>$255.00</td>
</tr>
<tr>
<td>Male</td>
<td>Homozygous for Cck</td>
<td>$255.00</td>
<td></td>
</tr>
</tbody>
</table>

Related Products and Services
Frozen Mouse Embryo $2,595.00 per straw or vial

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.

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### Related Strains

- All
- By Allele
- By Gene