**B6(Cg)-Crh tm1(cre)Zjh/J**

Stock No: 012704 | CRH-ires-CRE

- Targeted Mutation

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**Overview**

**Also Known As: CRH-ires-CRE**

CRH-ires-CRE knock-in mice have Cre recombinase expression directed to CRH positive neurons by the endogenous promoter/enhancer elements of the corticotropin releasing hormone locus (Crh).

**Donating Investigator**

Z. Josh Huang, Cold Spring Harbor Laboratory

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3–6 week average lead time depending on quantity and age requests are not accepted
GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>?+/pN2F3</td>
<td>(2018-09-06 00:00:00)</td>
</tr>
</tbody>
</table>

**Crh\textsuperscript{tm1(cre)Zjh}**

<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>Crh</td>
<td>corticotropin releasing hormone</td>
</tr>
</tbody>
</table>

RESEARCH APPLICATIONS

Research Tools
Neurobiology Research

BASE PRICE

Starting at:

$255.00 Domestic price for female

Details

**Detailed Description**

The CRH-ires-CRE allele harbors an internal ribosome entry site and Cre recombinase in the 3' UTR of the corticotropin releasing hormone locus (Crh). As such, cre expression is directed by the endogenous Crh promoter/enhancer elements. When CRH-ires-CRE mice are bred with mice containing loxP-flanked sequences, Cre-mediated recombination will result in deletion of the floxed sequences in the Crh-expressing cells in the offspring. Crh expression from the CRH-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 Crh expression pattern with highly efficient recombination). They reported Cre recombinase activity is observed in CRH positive neurons (some interneurons), and may not have examined cre expression in tissues other than brain. Crh expression from the CRH-ires-Cre allele was not evaluated. They also reported that homozygous mice are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities.

For characterization information, see images at the Allen Institute for Brain Science website ([Crh-ires-Cre (ZJH) images](#)). If the recombinase activity pattern of this allele is further characterized by the Genetic Resource Science group at The Jackson Laboratory, such findings will be reported on the Mouse Genome Informatics (MGI) Allele Detail entry ([Crh\textsuperscript{tm1(cre)Zjh}](#)).
information would also be found searching the MGI Recombinase Activity database. It is the experience of The Jackson Laboratory that sparse hair on the hind end is typical for homozygous mice at wean age, but it fully grows back in 3-4 weeks. [October 2018]

Genotyping Protocols
Probe: Gt(rosa)26sor^{Tm1Sor} Probe
Standard PCR: Crh^{tm1(cre)2/h}
Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Breeding Considerations
When maintaining a live colony, homozygous mice may be bred together.
Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Appearance
It is the experience of The Jackson Laboratory that sparse hair on the hind end is typical for homozygous mice at wean age, but it fully grows back in 3-4 weeks. [October 2018]
Citation
When using the CRH Tg C67BL/6J mouse strain in a publication, please cite the originating article(s) and include JAX stock #012704 in your Materials and Methods section.
Facility Barrier Level Descriptions
- AX10 (Standard)

Pricing & Availability
3–6 week average lead time depending on quantity and age requests are not accepted
Repository Live

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

<table>
<thead>
<tr>
<th>Live Mouse</th>
<th>AGE</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 Crh \textsuperscript{1m1(cre)2j}</td>
<td>$255.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Crh \textsuperscript{1m1(cre)2j}</td>
<td>$255.00</td>
<td></td>
</tr>
</tbody>
</table>

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

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