Overview

Also Known As: CHOP KO

Mice that are homozygous for the targeted mutation have mouse embryonic fibroblasts and renal proximal tubular epithelial cells with decreased apoptosis in response to endoplasmic reticulum stress induced by the toxin, tunicamycin. This mutant mouse strain may be useful in studies of apoptosis and pathogenesis due to endoplasmic reticulum stress.
### GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N5×N3F3</td>
</tr>
<tr>
<td></td>
<td>(2018-04-17 00:00:00)</td>
</tr>
</tbody>
</table>

#### Ddit3<sup>tm2.1Dron</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Reporter, Null/Knockout)</td>
<td>Ddit3</td>
<td>DNA-damage inducible transcript 3</td>
</tr>
</tbody>
</table>

### RESEARCH APPLICATIONS

- Apoptosis Research
- Research Tools
- Cell Biology Research

### BASE PRICE

Starting at:

- $231.00 Domestic price for female

### Detailed Description

Mice that are homozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. No gene product (mRNA or protein) is detected by Northern or Western blot analysis of toxin challenged mouse embryonic fibroblasts (MEFs). MEFs and renal proximal tubular epithelial cells have decreased apoptosis in response to endoplasmic reticulum stress induced by the toxin, tunicamycin. Pancreatic islets cells are more resistant to nitric oxide induced apoptosis. MEFs exhibit a delayed onset of unfolded protein response (UPR) target gene expression when treated with tunicamycin. This mutant mouse strain may be useful in studies of apoptosis and pathogenesis due to endoplasmic reticulum stress. The Donating Investigator reports that lacZ activity is not detected.
Genotyping Protocols
Standard PCR: Ddit3\textsuperscript{tm1Dron}
Genotyping resources and troubleshooting

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

Mating System
Homozygote x Homozygote

Citation
When using the CHOP-KO mouse strain in a publication, please cite the originating article(s) and include JAX stock #005530 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions
AX11 (Maximum)

Pricing & Availability
3–6 week lead time for most orders depending on quantity and age range requested
## Domestic | International

Pricing effective for USA, Canada and Mexico shipping destinations

<table>
<thead>
<tr>
<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 Ddit3&lt;sup&gt;1m2.1Dro1&lt;/sup&gt;</td>
<td>$231.00</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Ddit3&lt;sup&gt;1m2.1Dro1&lt;/sup&gt;</td>
<td>$231.00</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.

### 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

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains
ELLsworth FACiLITY OFICIALLLY OPEN AND OPERATIONAL

Shipments have begun at our new facility, allowing increased access to JAX mouse models.

Leading the search for

TOMORROW'S CURES

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