B6.129S(Cg)-Ddit3<sup>tm2.1Dron</sup>/J

Stock No: 005530 | CHOP KO

- Congenic, Targeted Mutation

**REPOSITORY LIVE**

**PLACE ORDER**

3–6 week lead time for most orders depending on quantity and age range requested

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**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.
Donating Investigator
David Ron, NYU School of Medicine

GENETIC OVERVIEW

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

**Ddit3**<sup>1m2.1Dr</sup>on

<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>
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</tbody>
</table>

RESEARCH APPLICATIONS

- Apoptosis Research
- Research Tools
- Cell Biology Research

RESEARCH APPLICATIONS

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

$231.00 Domestic price for female

VIEW PRICE LIST

Details

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^{tm1Tron}
Genotyping resources and troubleshooting

Dietary Information
LabDiet® 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.

Facility Barrier Level Descriptions
- AX11 (Maximum)

Pricing & Availability
3–6 week lead time for most orders depending on quantity and age range requested
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Email: TechTran@jax.org

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains
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