STOCK CebpΔm/1Δp J

Stock No: 006873 | C/EBP -

Targeted Mutation

CRYO RECOVERY

PLACE ORDER

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

Overview

Also Known As: C/EBP -

These CCAAT/enhancer binding protein (C/EBP), beta knock-out mutant mice may be useful in studying metabolism, obesity, mammary gland development, or lymphoproliferative disorders.

Donating Investigator

Colleen Croniger, Case Western Reserve University

READ MORE »
GENETIC OVERVIEW

**Genetic Background**

**Generation**

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**Cebp**

**Allele Type**
Targeted (Null/Knockout)

**Gene Symbol**
Cebp

**Gene Name**
CCAAT/enhancer binding protein (C/EBP), beta

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VIEW GENETICS

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RESEARCH APPLICATIONS

- Developmental Biology Research
- Diabetes and Obesity Research
- Reproductive Biology Research
- Endocrine Deficiency Research
- Immunology, Inflammation and Autoimmunity Research
- Cardiovascular Research
- Metabolism Research
- Hematological Research

VIEW ALL RESEARCH APPLICATIONS

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BASE PRICE

**Starting at:**

$2,395.00 Domestic price Cryo Recovery

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VIEW PRICE LIST

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Details

**Detailed Description**

Significant numbers of mice homozygous for this C/EBP-beta mutation on this mixed genetic background die perinatally due to hypoglycemia and a failure to mobilize glycogen. Homozygous males that survive to adulthood are fertile, but females are sterile, and display altered mammary duct formation. Macrophages isolated from homozygous mutant mice have impaired bactericidal activity. Surviving homozygotes exhibit fasting hypoglycemia, with reduced plasma insulin, plasma lipids, and free fatty acids (FFAs), and impaired hepatic glucose production. Further, they have a blunted response to glucagon and adrenaline primarily due to altered levels of hepatic cAMP production and reduced protein kinase A activity. Homozygous mice are resistant to obesity and have increased carbon dioxide production from increased metabolism in the brown adipose tissue and muscle. On a high-fat diet, homozygotes are protected from obesity and fatty liver due to reduced hepatic expression of lipogenic genes. Homozygotes may also exhibit a hematopoietic/lymphoproliferative disorder resembling Castleman’s disease in humans. These C/EBP-beta mutant mice may be useful in studying metabolism, obesity, mammary gland development, or lymphoproliferative disorders.
Genotyping Protocols
Standard PCR: Cebpb\textsuperscript{tm1Ypo}
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, heterozygous mice are bred together or to wildtype siblings. The donating investigator reports increased penetrance of perinatal lethality when backcrossed to C57BL/6 genetic background.
Additional Breeding and Husbandry Support

Citation
When using the C6ERB mouse strain in a publication, please cite the originating article(s) and include JAX stock #006873 in your Materials and Methods section.
Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

Pricing & Availability
Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

### Domestic vs. International

Pricing effective for USA, Canada and Mexico shipping destinations

<table>
<thead>
<tr>
<th>Cryorecovery - Domestic Pricing</th>
<th>Genotype</th>
<th>Price</th>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Homozygous or Heterozygous or wildtype for Cebpb&lt;tm1Vpo&gt;, 1 pair minimum</td>
<td>$2,595.00</td>
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</table>

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a Dedicated Supply for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

#### Related Products and Services

<table>
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<tr>
<th>Product</th>
<th>Price</th>
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<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
<td>$2,595.00 per straw or vial</td>
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</table>

### 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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