B6;SJL-Tg(Cyp17a1-icre)AJako/J

Stock No: 028547 | Cyp17iCre

Transgenic

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: Cyp17iCre

These Cyp17iCre transgenic mice have the mouse Cyp17a1 promoter driving codon optimized iCre recombinase expression in the ovarian theca/interstitial cells and Leydig cells in the testis.
Donating Investigator
CheMyong Ko, University of Illinois at Urbana-Champaign

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tr>
<td>Tg(Cyp17a1-icre)AJako</td>
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Allele Type
Transgenic (Recombinase-expressing)

RESEARCH APPLICATIONS
Research Tools
Reproductive Biology Research

BASE PRICE
Starting at:
$2,854.50 Domestic price Cryo Recovery

DETAILS

Detailed Description
The Cyp17a1 gene encodes a cytochrome P450 enzyme that is involved in fetal and pubescent sexual development. These transgenic mice express iCre recombinase under the control of the mouse cytochrome P450, family 17, subfamily a, polypeptide 1, gene promoter.

When crossed with a strain containing loxP site flanked sequence of interest, Cre-mediated recombination results in deletion of the targeted gene in the Cre expressing tissues. Cre recombinase activity is detected in ovarian theca and interstitial cells, testis Leydig cells, pituitary gland intermediate lobe and liver. Weaker Cre recombinase activity is observed in the oviduct and uterus, and in gonadotropin-primed ovarian granulosa cells, as well as kidney, adrenal gland, spleen, lung and brain. At embryonic day 16.5, Cre recombinase is expressed in the testis. Mice that are homozygous for the transgene are viable and fertile.

Development
Genotyping Protocols
MELT: Tg(Cyp17a1-icre)
Genotyping resources and troubleshooting

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

Mating System
Hemizygote x Noncarrier
Noncarrier x Hemizygote

Citation
When using the Cyp17a1-Cre mouse strain in a publication, please cite the originating article(s) and include JAX stock #028547 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.

<table>
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<tr>
<th>Cryorecovery - Domestic Pricing</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Hemizygous for Tg(Cyp17a1-icre)AJako</td>
<td>$2,854.50</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.

<table>
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<tr>
<th>Related Products and Services</th>
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<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
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<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.

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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.

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Terms of Use

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Phone: 207-288-6470
Email: TechTran@jax.org
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Related Strains

- All
- By Allele
- By Gene
- By Collection