Also Known As: TetO::Bmal1-HA

These transgenic mice express a hemaglutinin-tagged copy of the Arntl (Bmal1) gene under the control of a tetracycline-responsive promoter element (TRE or tetO). When bred with another transgenic mouse expressing reverse tetracycline-controlled transactivator protein (rtTA) or tetracycline-controlled transactivator protein (tTA), transgene expression can be regulated with the tetracycline analog, doxycycline. This strain may be useful in studies delineating the mechanism of mammalian circadian rhythms.
Donating Investigator
Dr. Joseph S. Takahashi, Univ Texas Southwestern Medical Ctr

GENETIC OVERVIEW

Tg(tetO-Arntl)1Jt

Allele Type
Transgenic (Inducible, Inserted expressed sequence)

RESEARCH APPLICATIONS
Neurobiology Research
Research Tools

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

Details

Detailed Description
Hemizygous mice carrying this mutation are viable, fertile, and display no apparent defects or abnormalities. These transgenic mice express a hemaglutinin-tagged copy of the Arntl (Bmal1) gene under the control of a tetracycline-responsive promoter element (TRE or tetO). When bred with another transgenic mouse expressing reverse tetracycline-controlled transactivator protein (rtTA) or tetracycline-controlled transactivator protein (tTA) to create a bimtransgenic animal, transgene expression can be regulated with the tetracycline analog, doxycycline. This strain may be useful in studies delineating the mechanism of mammalian circadian rhythms.

Development

Expression Data
Genotyping Protocols
Genotyping resources and troubleshooting

Breeding Considerations
When maintained as a live colony, hemizygotes may be used for breeding.
Additional Breeding and Husbandry Support

Citation
When using the Tg(tetO-ArntL1)Jt mouse strain in a publication, please cite the originating article(s) and include JAX stock #007618 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions
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
International
Pricing effective for USA, Canada and Mexico shipping destinations

Cryorecovery - Domestic Pricing
<table>
<thead>
<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Hemizygous or Non carrier for Tg(tetO-Arnttl)1Jt</td>
<td>$2,854.50</td>
</tr>
</tbody>
</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>
<thead>
<tr>
<th>Related Products and Services</th>
<th>Related Products and Services</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
<td>B6.Cg-Tg(tetO-Arnttl)1Jt/J</td>
<td>$2595.00</td>
</tr>
</tbody>
</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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**Related Strains**

- All
- By Allele
- By Gene
- By Collection

All Related Strains