BTBR T - Itpr3^{+/+}Fbxl3^{Ovtm/J}

Stock No: 016926 | BTBR Overtime

🌿 Chemically Induced Mutation, Coisogenic

PLACE ORDER

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

Also Known As: BTBR Overtime

The ENU induced mutation (Fbxl3^{Ovtm}) on the BTBR inbred background results in an extended circadian period. These mice may be useful for studying circadian rhythm modulation.

Donating Investigator

Dr. Joseph S. Takahashi, Univ Texas Southwestern Medical Ctr

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GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fbxl3^{Ovtm}</td>
<td></td>
</tr>
<tr>
<td><strong>Allele Type</strong></td>
<td><strong>Gene Symbol</strong></td>
</tr>
<tr>
<td>Chemically induced (ENU)</td>
<td>Fbxl3</td>
</tr>
<tr>
<td><strong>T^{+}</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Allele Type</strong></td>
<td><strong>Gene Symbol</strong></td>
</tr>
<tr>
<td>Not Applicable</td>
<td>T</td>
</tr>
<tr>
<td><strong>Itpr3^{ff}</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Allele Type</strong></td>
<td><strong>Gene Symbol</strong></td>
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<tr>
<td>Spontaneous</td>
<td>Itpr3</td>
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</tbody>
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VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools
BASE PRICE
Starting at:
$2,595.00 Domestic price Cryo Recovery

Details

Detailed Description
Ovtm ENU-induced mutants contain an A to G transition at nucleotide in exon 5 of the F-box and leucine-rich repeat protein 3 (Fbx3) gene that defines an amino acid change from isoleucine to threonine at residue 364. While homozygous males are viable, fertile, and normal in size, homozygous females are viable and normal in size, but are often infertile. FBXL3 is part of the SKP1-CUL1-F-box-protein (SCF) ubiquitin protein ligase complex which mediates phosphorylation-dependent ubiquitination. Homozygotes have a long circadian period of ~26 hours. These mice may be useful for studying circadian rhythm modulation.

Development

Control Suggestions

Selected References

Genetics

Fbx3<sup>Ovtm</sup>

T<sup>+</sup>

Ilpr3<sup>f</sup>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype
Genotyping Protocols
Standard PCR: \texttt{Fbxl3^{Ovtm}-ARMS-alternate2}
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, heterozygous females may be bred to homozygous males. The donating investigator reports that homozygous females are often infertile.
Additional Breeding and Husbandry Support

Citation
When using the B6R-Em6a-Ovvtm mouse strain in a publication, please cite the originating article(s) and include JAX stock #016926 in your Materials and Methods section.

Facility Barrier Level Descriptions
Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, \texttt{G200}

Pricing & Availability

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

<table>
<thead>
<tr>
<th>Cryorecovery - Domestic Pricing</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous for \texttt{Fbxl3^{Ovtm}}, 1 pair minimum</td>
<td>$2,595.00</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.
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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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Related Strains

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All Related Strains