

BTBR T⁺ *Itpr3*^{ff} -*Fbx13*^{Ovtn} /J

Stock No: **016926** | BTBR Overtime

 Chemically Induced Mutation, Coisogenic

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

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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

Genetic Background

Generation

Itpr3^{ff}

Alele Type

Spontaneous

Gene Symbol

Itpr3

Gene Name

inositol 1,4,5-triphosphate receptor 3

T⁺

Alele Type

Not Applicable

Gene Symbol

T

Gene Name

brachyury, T-box transcription factor T

Fbx13^{Ovtn}

Alele Type

Chemically induced (ENU)

Gene Symbol

Fbx13

Gene Name

F-box and leucine-rich repeat protein 3

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools
Neurobiology Research
Cell Biology Research
Dermatology Research

[VIEW ALL RESEARCH APPLICATIONS](#)

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

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[- Details](#)

[- Detailed Description](#)

Ovtn ENU-induced mutants contain an A to G transition at nucleotide in exon 5 of the F-box and leucine-rich repeat protein 3 (*Fbxl3*) 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](#)

[+ *Itpr3^{fl}*](#)

[+](#) *T*⁺

[+](#) *Fbxl3*^{Ovtm}

[-](#) Disease/Phenotype

[+](#) Disease Terms

[+](#) Research Areas By Phenotype

[+](#) Mammalian Phenotype Terms by Genotype

[+](#) References

[-](#) Technical Support

C O N T A C T T E C H N I C A L S U P P O R T

Genotyping Protocols

Standard PCR:[Fbxl3-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 BTBR Overtime mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #016926 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

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous for Fbx3<Ovm>, 1 pair minimum	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	BXD42/TyJ Frozen Embryos	\$2595.00
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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. We do not guarantee [breeding performance](#) and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

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Q U E S T I O N S A B O U T T E R M S O F U S E

ADDITIONAL USE RESTRICTIONS APPLY

Use of MICE by companies or for-profit entities requires a license.

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

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