The Jackson Laboratory

B6.129X1-*Fut2* ^{tm1Sdo} /J

Stock No: **006262** | FUT2 KO

Congenic, Targeted Mutation

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

PLACE ORDER

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galactosidase activity mimics the endogenous expression pattern of the endogenous gene in the uterus, stomach, and colon.

Donating Investigator

Steven Domino, University of Michigan

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GENETIC OVERVIEW

Genetic Background	Generation

Fut2^{tm1Sdo}

Allele Type	Gene Symbol	Gene Name
Targeted (Reporter, Null/Knockout)	*Fut2*	fucosyltransferase 2

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools
Internal/Organ Research
Reproductive Biology Research
Virology Research

VIEW ALL RESEARCH APPLICATIO

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

Mice that are homozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. Homozygous mice have a chinchilla (gray) coat color, while heterozygotes have the typical black coat color expected for the C57BL/6J genetic background. Alpha (1,2) fucosylated glycans are not detected in the uterine epithelia from homozygotes at estrus. Beta galactosidase staining is detected in endocervial and uterine gland mucus secreting cells, stomach foveolar pit cells and chief cells, and colon goblet cells. The pattern of beta galactosidase activity mimics the endogenous expression pattern of the endogenous gene. This mutant mouse strain represents a model of the nonsecretor ABH histo-blood group antigen, which confers resistance to Norwalk virus infection, and may be useful in studies of reproductive biology, gastrointestinal tract epithelium, and the function of fucosylated glycans.

This strain was transferred from the collection of the Consortium for Functional Glycomics.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Fut2^{tm1Sdo}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR:Fut2
Standard PCR:Fut2
Genotyping resources and troubleshooting

Breeding Considerations

When maintaining a live colony, these mice are bred as homozygotes. Of note, homozygous mice have a chinchilla (gray) coat color, while heterozygotes have the typical black coat color expected for the C57BL/6J genetic background.

Additional Breeding and Husbandry Support

Citation

When using the FUT2 KO mouse strain in a publication, please cite the originating article(s) and include JAX stock #006262 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

Cryo Recovery

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 Fut2<tm1Sdo>	$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.129X1-Fut2<tm1Sdo>/J Frozen Embryo	$2595.00

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. We do not guarantee breeding performance and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

Terms Of Use

TERMS OF USE

General Terms and Conditions

QUESTIONS ABOUT TERMS OF USE

ADDITIONAL USE RESTRICTIONS APPLY

Use of MICE by companies or for-profit entities requires a no-fee JAX Leap License prior to shipping.

LICENSING INFORMATION

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

Related Strains

All

By Allele

By Gene

By Collection

TOMORROW'S CURES

Choose other country or region

Did you find what you were looking for?

Yes No