

C3.B6-*Ift88*^{flexo} /J

Stock No: **019149**

 Chemically Induced Mutation, Congenic

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

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development.

Donating Investigator

Lee Niswander, University of Colorado, Denver

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GENETIC OVERVIEW

Genetic Background

Generation

Ift88^{flexo}

Alele Type

Chemically induced (ENU)
(Hypomorph)

Gene Symbol

Ift88

Gene Name

intraflagellar transport 88

VIEW GENETICS

RESEARCH APPLICATIONS

Developmental Biology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W P R I C E L I S T

Details

Detailed Description

Ift88 (intraflagellar transport 88) encodes one of several proteins that are required for the formation and maintenance of flagella and cilia. They play a critical role in the positive and negative transcriptional activities of Gli proteins, effectors of Hedgehog signaling during development.

This recessive hypomorphic allele of *Ift88* involves a point mutation that creates an in-frame transcriptional skip of exon 16. This results in a deletion of 29 amino acids from the protein that encode a portion of a tetratricopeptide repeat. A normal transcript is detected at very low levels and shortened cilia are detected in ventral node cells.

Homozygous mutants are embryonic lethal by E12.5 and have low penetrance neural tube closure defects, craniofacial defects, inverted heart looping, polydactyly (6-9 digits) in all four limbs, and delayed bone development. Heterozygotes are viable and fertile.

Development

Control Suggestions

Selected References

Genetics

Ift88^{fxo}

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

Pyrosequencing: [lft88Pyro](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Heterozygotes are viable and fertile, but homozygotes die by day E12.5 of embryonic development. Litter sizes are reported to be smaller than those of inbred C3H mice.

[Additional Breeding and Husbandry Support](#)

Citation

When using the C3.B6-*lft88*^{fl^{exo}}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #019149 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 or Wildtype for	\$2,854.50

RELATED PRODUCTS AND SERVICES		
Frozen Mouse Embryo	C3.B6-lft88<flexo>/J	\$2595.00

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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.

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

LICENSING INFORMATION

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

Related Strains

All

By Allele

By Gene

By Collection



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