

STOCK *Lats2^{tm1.1Jfm}* /RjoJ

Stock No: 025428

 Targeted Mutation

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

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and organ growth by the Hippo pathway.

Donating Investigator

Randy L Johnson, M.D. Anderson Cancer Center

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GENETIC OVERVIEW

Genetic Background

Generation

Lats2^{tm1.1Jfm}

Allele Type

Targeted (Conditional ready
(e.g. floxed))

Gene Symbol

Lats2

Gene Name

large tumor suppressor 2

VIEW GENETICS

RESEARCH APPLICATIONS

Cell Biology Research

Cancer Research

Research Tools

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

Lats2^{ff} floxed mice possess *loxP* sites flanking exon 5 of the large tumor suppressor (*Lats2*) gene. LATS2 is a serine/threonine-protein kinase involved in the regulation of the Hippo pathway. Hippo signaling pathway plays a role in organ size control and tumor suppression by restricting proliferation and promoting apoptosis. Mice that are homozygous for this allele are viable and fertile. When bred to mice that express tissue-specific Cre recombinase, resulting offspring will have exon 5 deleted in the *cre*-expressing tissues.

For example when these mice are bred to mice carrying a floxed-*Lats1* allele (Stock No. [024941](#)) and afterwards bred to B6.FVB(129)-Tg(Myh6-cre/Esr1*)1Jmk/J mice (Stock No. [005657](#)), tamoxifen-inducible Cre-expression results in *Lats 1/2* deficient cardiomyocytes which exhibit enhanced heart regeneration and cardiomyocyte renewal.

Development

Control Suggestions

Genetics

Lats2^{tm1.1Jfm}

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:[Lats2](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the STOCK *Lats2^{tm1.1Jfm}/RjoJ* mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #025428 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 <i>Lats2</i> < <i>tm1.1Jfm</i> >	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

STOCK Lats2^{tm1.1Jfm}/RjoJ

\$2595.00

PAYMENT TERMS AND CONDITIONS

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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

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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