

B6.129S6(SJL)-Fgf21^{tm1.2Djm}/J
Stock No: **022361** | Fgf21^{loxP}

 Congenic, Targeted Mutation

Live mice available in varying quantities. Ask Customer Service for details.

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may be useful for studying the role of FGF21 in coordinating metabolic responses to fasting.

Donating Investigator

David Mangelsdorf, UT Southwestern Medical Center

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GENETIC OVERVIEW

Genetic Background

Generation

N10+pN3F1
(2021-04-06 00:00:00)

Fgf21^{tm1.2Djm}

Alele Type

Targeted (Conditional ready
(e.g. floxed), No functional
change)

Gene Symbol

Fgf21

Gene Name

fibroblast growth factor 21

VIEW GENETICS

RESEARCH APPLICATIONS

Metabolism Research

Research Tools

Diabetes and Obesity Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$278.00 Domestic price for female 4-week

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

Details

Detailed Description

These *Fgf21*^{loxP} mice possess *loxP* sites flanking exons 1-3 of the fibroblast growth factor 21 (*Fgf21*) gene. FGF21 is an endocrine hormone, expressed in liver and pancreas, which stimulates glucose uptake in adipocytes. FGF21 induction in liver by peroxisome proliferator-activated receptor α (PPAR α) during fasting induces fatty acid oxidation ketogenesis in liver. Homozygotes are viable and fertile. When bred to mice that express tissue-specific Cre recombinase, resulting offspring will have exons 1-3 deleted in the *cre*-expressing tissues.

For example, when bred to B6.129S4-*Meox2*^{tm1(cre)Sor}/J mice (Stock No. [003755](#)) expressing germ line Cre-recombinase, livers from resulting offspring have decreased beta-oxidation, ketogenesis, and gluconeogenesis under fasted conditions.

Of note, the knock-out version of this allele is available as Stock No. [033846](#).

Development

Control Suggestions

Selected References

Genetics

Fgf21^{tm1.2Djm}

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:[Fgf21 Alternate2](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

New Diet as of March 2015: Lab Diet® 5K0Q (6% fat)

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 Fgf21^{loxP} mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #022361 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX18 \(Maximum\)](#)

[- Pricing & Availability](#)



Live mice available in varying quantities. Ask Customer Service for details.

Available

Domestic **International**

Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE

AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Homozygous for Fgf21 ^{tm1.2Djm}	\$278.00
	Male	Homozygous for Fgf21 ^{tm1.2Djm}	\$278.00
5 weeks	Female	Homozygous for Fgf21 ^{tm1.2Djm}	\$278.00
	Male	Homozygous for Fgf21 ^{tm1.2Djm}	\$278.00
6 weeks	Female	Homozygous for Fgf21 ^{tm1.2Djm}	\$278.00
	Male	Homozygous for Fgf21 ^{tm1.2Djm}	\$278.00
7 weeks	Female	Homozygous for Fgf21 ^{tm1.2Djm}	\$278.00
	Male	Homozygous for Fgf21 ^{tm1.2Djm}	\$278.00
8 weeks	Female	Homozygous for Fgf21 ^{tm1.2Djm}	\$278.00
	Male	Homozygous for Fgf21 ^{tm1.2Djm}	\$278.00
9 weeks	Female	Homozygous for Fgf21 ^{tm1.2Djm}	\$278.00
	Male	Homozygous for Fgf21 ^{tm1.2Djm}	\$278.00
10 weeks	Female	Homozygous for Fgf21 ^{tm1.2Djm}	\$278.00
	Male	Homozygous for Fgf21 ^{tm1.2Djm}	\$278.00
11 weeks	Female	Homozygous for Fgf21 ^{tm1.2Djm}	\$278.00
	Male	Homozygous for Fgf21 ^{tm1.2Djm}	\$278.00
12 weeks	Female	Homozygous for Fgf21 ^{tm1.2Djm}	\$278.00
	Male	Homozygous for Fgf21 ^{tm1.2Djm}	\$278.00

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.129S6(SJL)-Fgf21 ^{tm1.2Djm} /J	\$2595.00
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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.

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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

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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 prior to shipping.](#)

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection





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