

B6.129X1(FVB)-*Nr1h4*^{tm1Gonz} /J

Stock No: 007214 | FXR/BAR-

 Congenic, Targeted Mutation

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

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levels of serum and hepatic cholesterol and triglycerides. This mutant mouse strain represents a model that may be useful in studies related to bile acid and lipid homeostasis.

Donating Investigator

IMR Colony, The Jackson Laboratory

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GENETIC OVERVIEW

Genetic Background

Generation

N11F12
(2020-12-01 00:00:00)

Nr1h4^{tm1Gonz}

Alele Type

Targeted (Null/Knockout)

Gene Symbol

Nr1h4

Gene Name

nuclear receptor subfamily 1, group H, member 4

VIEW GENETICS

RESEARCH APPLICATIONS

Metabolism Research
Internal/Organ Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$236.78 Domestic price for female 4-week

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

– Details

– Detailed Description

Mice that are homozygous for the targeted *Nr1h4* allele are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. No *Nr1h4* protein product is detected in liver tissue although an aberrant transcript appears to be generated. Homozygous mice display a proatherogenic serum lipoprotein profile characterized by elevated levels of serum and hepatic cholesterol and triglycerides. Serum bile acids are also elevated. When fed a diet supplemented with 1% cholic acid, severe wasting, hypothermia and increased mortality is observed. Wildtype mice fed a similar diet display no ill effects. Levels of fecal bile excretion are reduced in homozygotes. This mutant mouse strain represents a model that may be useful in studies related to bile acid and lipid homeostasis.

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. This is the case for the strain above. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.

+ Development

+ Control Suggestions

+ Selected References

– Genetics

+ *Nr1h4*^{tm1Gonz}

– 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:[Nr1h4](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

When maintaining a live colony, these mice can be bred as homozygotes.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the FXR/BAR- mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #007214 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX11 \(Maximum\)](#)

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Available

Domestic **International**

Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE

AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Homozygous for Nr1h4 ^{tm1Gonz}	\$236.78
	Male	Homozygous for Nr1h4 ^{tm1Gonz}	\$236.78
5 weeks	Female	Homozygous for Nr1h4 ^{tm1Gonz}	\$236.78
	Male	Homozygous for Nr1h4 ^{tm1Gonz}	\$236.78
6 weeks	Female	Homozygous for Nr1h4 ^{tm1Gonz}	\$236.78
	Male	Homozygous for Nr1h4 ^{tm1Gonz}	\$236.78
7 weeks	Female	Homozygous for Nr1h4 ^{tm1Gonz}	\$236.78
	Male	Homozygous for Nr1h4 ^{tm1Gonz}	\$236.78
8 weeks	Female	Homozygous for Nr1h4 ^{tm1Gonz}	\$236.78
	Male	Homozygous for Nr1h4 ^{tm1Gonz}	\$236.78
9 weeks	Female	Homozygous for Nr1h4 ^{tm1Gonz}	\$236.78
	Male	Homozygous for Nr1h4 ^{tm1Gonz}	\$236.78
10 weeks	Female	Homozygous for Nr1h4 ^{tm1Gonz}	\$236.78
	Male	Homozygous for Nr1h4 ^{tm1Gonz}	\$236.78
11 weeks	Female	Homozygous for Nr1h4 ^{tm1Gonz}	\$236.78
	Male	Homozygous for Nr1h4 ^{tm1Gonz}	\$236.78
12 weeks	Female	Homozygous for Nr1h4 ^{tm1Gonz}	\$236.78
	Male	Homozygous for Nr1h4 ^{tm1Gonz}	\$236.78

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.129X1(FVB)-Nr1h4<tm1Gonz>/J Frozen Embryo	\$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.

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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.

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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

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