

STOCK *Acaca*^{tm1Jdh} /J

Stock No: **030954** | ACC1 flox

 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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carboxylase alpha) gene, a cytosolic enzyme involved in de novo lipogenesis. This strain may be useful for the study of lipogenesis and nonalcoholic fatty liver disease.

Donating Investigator

Dr. Jay D. Horton, Univ of Texas SW Med Center at Dallas

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GENETIC OVERVIEW

Genetic Background

Generation

Acaca^{tm1Jdh}

Alele Type

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

Gene Symbol

Acaca

Gene Name

acetyl-Coenzyme A carboxylase alpha

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Metabolism 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

Acaca (ACC1 or acetyl-Coenzyme A carboxylase alpha) encodes a cytosolic enzyme that performs a rate limiting step in de novo lipogenesis. Two isozymes, ACC1 and ACC2, are the first committed enzymes in the de novo lipogenesis pathway. When bred to mice that express tissue-specific Cre recombinase, resulting offspring will have exon 22-26 deleted in cre-expressing tissues.

When combined with mice carrying *Acacb*^{tm1.1Low} (Stock No. [013042](#)) and Tg(Alb-cre)21Mgn (Stock No. [003574](#)) hepatocytes from progeny exhibit reduced hepatic steatosis, decreased polyunsaturated fatty acid (PUFA) concentrations in liver, plasma hypertriglyceridemia and increased VLDL secretion.

Development

Control Suggestions

Selected References

Genetics

Acaca^{tm1Jdh}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

- 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

Probe: [Generic Neo](#)

Standard PCR: [Acaca Alternate3](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these mice are bred by homozygote sibling matings.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the ACC1 flox mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #030954 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 Acaca<tm1Jdh>	\$2,854.50

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LICENSING INFORMATION

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