

B6SJL-Tg(SREBP1a)7343Reh/J

Stock No: **002840** | TgSREBP-1a460

 Transgenic

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

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Donating Investigator

Robert E Hammer, UT Southwestern Medical Center at Dallas

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(SREBP1a)7343Reh

Alele Type

Transgenic (Inserted expressed sequence, Humanized sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

Details

Detailed Description

The NH2-terminal domain of sterol-regulatory element binding protein-1a (SREBP-1a) activates transcription of genes encoding enzymes of cholesterol and fatty acid biosynthesis in cultured cells. These transgenic mice overexpress a truncated version of human SREBP-1a that includes the NH2-terminal domain but lacks the membrane attachment site. Expression is driven by the rat phosphoenolpyruvate carboxykinase (*Pck1*, also called *Pepck*) promoter, which gives high level expression in liver. When placed on a low carbohydrate/high protein diet to induce the *Pck1* promoter the transgenic mice develop progressive and massive enlargement of the liver due to the engorgement of hepatocytes with cholesterol and triglycerides. The mRNAs encoding 3-hydroxy-3-methylglutaryl CoA (HMG CoA) synthase, HMG CoA reductase, squalene synthase, acetyl-CoA carboxylase, fatty acid synthase, and stearoyl-CoA desaturase-1 are elevated, as is the LDL receptor mRNA. The rates of cholesterol and fatty acid synthesis in liver is elevated 5- and 25-fold, respectively. Plasma lipid levels are not elevated. The amount of white adipose tissue decreases progressively as the liver enlarges. (Shimano H, et al., J Clin Invest. 1996, 98:1575)

Expression Data

Control Suggestions

Selected References

Genetics

Tg(SREBP1a)7343Reh

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR: [Tg\(SREBP1a\)7343Reh](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, hemizygous mice may be bred to wildtype siblings, or to B6SJLF1/J mice (Stock No. [10012](#)).

[Additional Breeding and Husbandry Support](#)

Appearance

multiple coat colors

Related Genotype: *a*, *A*, *Oca2^p*, *Tyr^c* and *Pde6b^{rd1}*

Citation

When using the TgSREBP-1a460 mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #002840 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	Hemizygous or Non carrier for Tg(SREBP1a)7343Reh	\$2,854.50

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