

B6;129S7-Apob^{tm2Sgy}/J
Stock No: **002877** | apo-B¹⁰⁰

 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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See Updated Apob Allele Information below[2020].

Donating Investigator

Dr. Stephen Young, UCLA

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GENETIC OVERVIEW

Genetic Background

Generation

Apob^{tm2Sgy}

Allele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Apob

apolipoprotein B

VIEW GENETICS

RESEARCH APPLICATIONS

Mouse/Human Gene Homologs

Cardiovascular Research

Developmental Biology Research

Neurobiology 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

*Apo-B*¹⁰⁰ homozygous mice express only the Apo-B100 isoform of the mouse *Apob* (apolipoprotein B) gene and exhibit low HDL cholesterol. See Updated *Apob* Allele Information below.

A CTA to TTA mutation was introduced to sequences corresponding to the apo-B48 editing codon (codon 2179; codon 2153 in the original publication, PMID: [8692825](#)) in exon 26. Western blot analysis on plasma derived from heterozygous and homozygous mice demonstrates that the expression of the Apo-B100 isoform is unaffected by this mutation, while no Apo-B48 isoform is produced from this allele.

Their development is normal and there are no intestinal abnormalities. LDL cholesterol is normal. Homozygotes have lower HDL cholesterol levels than either wildtype or APOB48-expressing mice (see Stock No. [002876](#)).

Updated *Apob* Allele Information: In 2020, analysis by The Jackson Laboratory determined the mice to have the post-FIAU *Apo-B*¹⁰⁰ (the neo, TK and duplicate exons 26-29 deleted) allele on one homologous chromosome, and pre-FIAU *Apo-B*¹⁰⁰ (retaining the neo, TK and duplicate exons 26-29) on the other homologous chromosome. This analysis also confirmed that RT-PCR of compound heterozygous liver shows predicted change in coding component (CAA to CTA in codon 2179), and reduced HDL was verified (64.2 mg/dL +/- 9.02 [n=9] compared to C57BL/6J 94.9 mg/dL +/-6.5 [n=4]).

Development

Control Suggestions

Selected References

Genetics

Apob^{tm2Sgy}

⊖ 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

Restriction Enzyme Digest: [Apob](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Heterozygotes and homozygotes are viable and fertile. This strain is currently maintained through heterozygote (male or female) x wildtype crosses (September, 2020).

Expected coat color from breeding: black, white-bellied agouti.

[Additional Breeding and Husbandry Support](#)

Citation

When using the apo-B¹⁰⁰ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #002877 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



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 Apob<tm2Sgy>	\$2,854.50

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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

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Related Strains

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By Allele

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