

B6;129-Apob^{tm1Sgy} Apoe^{tm1Unc} /J
Stock No: **002878** | apo-B⁴⁸ apo-E

 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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Donating Investigator

Dr. Stephen Young, UCLA

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GENETIC OVERVIEW

Genetic Background

Generation

Apoe^{tm1Unc}

Alele Type

Targeted (Null/Knockout)

Gene Symbol

Apoe

Gene Name

apolipoprotein E

Apob^{tm1Sgy}

Alele Type

Targeted (Null/Knockout)

Gene Symbol

Apob

Gene Name

apolipoprotein B

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

Cardiovascular Research

Mouse/Human Gene Homologs

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

Mice homozygous for the *Apob*^{tm1Sgy} and *Apoe*^{tm1Unc} targeted mutations do not express the apolipoproteins B100 or E. They do retain the ability to express apolipoprotein B48. They have the highest total cholesterol (392 mg/dl vs 341 for *Apob*^{tm1Unc}/*Apoe*^{tm1Unc}); highest LDL cholesterol (APOB48 is not a ligand for LDLR), and atherosclerotic lesions more extensive than *Apoe*^{tm1Unc}/*Apoe*^{tm1Unc} homozygotes. The extent of atherosclerosis correlated significantly with plasma cholesterol levels.

Development

Control Suggestions

Selected References

Genetics

Apoe^{tm1Unc}

Apob^{tm1Sgy}

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](#)

Standard PCR:[Apoe](#)

Sanger sequencing:[Apob](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, this strain is maintained by mating homozygous siblings. Expected coat color from breeding: Tan w/pink eyes

[Additional Breeding and Husbandry Support](#)

Appearance

pink-eyed grey

Related Genotype: *a/a Oca2^p / Oca2^p*

Citation

When using the apo-B⁴⁸ apo-E⁻ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #002878 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](#)



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Domestic | International

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Homozygous for Apob<tm1Sgy>, Homozygous for Apoe<tm1Unc>	\$2,854.50

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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.

THE JACKSON LABORATORY'S GENOTYPE PROMISE

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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[General Terms and Conditions](#)

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.](#)

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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