

B6;129S6-Lrp8^{tm1Her}/J

Stock No: **003524** | ApoER2 KO

 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. Joachim Herz, Univ of Texas Southwest Med Ctr Dallas

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GENETIC OVERVIEW

Genetic Background

Generation

Lrp8^{tm1Her}

Alele Type

Targeted (Null/Knockout)

Gene Symbol

Lrp8

Gene Name

low density lipoprotein receptor-related protein 8,
apolipoprotein e receptor

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

Research Tools

Developmental Biology 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

Mutant mice have a targeted mutation of the apolipoprotein E receptor *Lrp8* (also called *Apoer2*). Homozygotes are viable with no gross morphological abnormalities. Homozygous males have reduced fertility, while females are not affected. Using C-terminal specific antibodies, no endogenous protein is detected in the brains of homozygotes. Homozygous mice have a smaller and less foliated cerebellum with various hippocampus defects in granule cell positioning, cortical neuron migration, granule cell laminar organization, commissural fiber distribution, CA1 microtubule-associated protein 2 (MAP-2) distribution, and long term potentiation (LTP). Mutant mice show contextual fear conditioning deficits. These mice may be useful in studies of brain development, neuronal cytoarchitecture, Reelin signaling pathways, NMDA receptor activity, lipoprotein receptors, synaptic plasticity and learning, schizophrenia, and neurodegenerative disorders such as Alzheimer's disease.

Development

Control Suggestions

Selected References

Genetics

Lrp8^{tm1Her}

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:[Lrp8](#)

Standard PCR:[Lrp8](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Homozygous males have reduced fertility.

[Additional Breeding and Husbandry Support](#)

Appearance

black

Related Genotype: *a/a*

Citation

When using the ApoER2 KO mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #003524 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 or wildtype for Lrp8<tm1Her>	\$2,854.50

RELATED PRODUCTS AND SERVICES		
Frozen Mouse Embryo	B6;129S6-Lrp8<tm1Her>/J Frozen Embryos	\$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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Q U E S T I O N S A B O U T T E R M S O F U S E

LICENSING INFORMATION

Phone: 207-288-6470
 Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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