

C57BL/6NJ-*Chchd10*^{em10Lutz} /J

Stock No: **029032** | *Chchd10* R15L KI

 Coisogenic, Endonuclease-Mediated Mutation

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

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related to mitochondrial bioenergetics and pathogenesis of diseases such as mitochondrial myopathy, motor neuron disease, frontotemporal dementia, Parkinson's disease, and amyotrophic lateral sclerosis.

Donating Investigator

Cathleen Lutz, The Jackson Laboratory

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GENETIC OVERVIEW

Genetic Background

Generation

Chchd10^{em10Lutz}

Alele Type

Endonuclease-mediated
(Humanized sequence)

Gene Symbol

Chchd10

Gene Name

coiled-coil-helix-coiled-coil-helix domain containing 10

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

Research Tools

Cell 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

CRISPR/cas9 endonuclease mediated genome editing of the *Chchd10*, coiled-coil-helix-coiled-coil-helix domain containing 10, gene was used to introduce the R15L knock-in mutation. The mouse *Chchd10* R15 is equivalent to the human *CHCHD10* R15. The targeted *Chchd10* gene encodes a mitochondrial intermembrane protein that is involved with mitochondrial cristae morphology and oxidative phosphorylation. Mutations in the human *CHCHD10* gene can cause frontotemporal dementia and amyotrophic lateral sclerosis (ALS). Homozygotes are viable and fertile. As the mice are characterized, we will modify the strain description and add phenotype data.

+ Development

+ Control Suggestions

– Genetics

+ *Chchd10*^{em10Lutzy}

– 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

Sanger sequencing:[Chchd10](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these mice can be bred as homozygotes.

[Additional Breeding and Husbandry Support](#)

Citation

When using the Chchd10 R15L KI

mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #029032 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 Chchd10 ^{em10(R15L)} Lutz	\$2,854.50

RELATED PRODUCTS AND SERVICES

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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.

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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

The use of this mouse model is subject to the terms and conditions of the Limited License from The Broad Institute.

The use of this mouse model is subject to the terms and conditions of the Limited Use Label License from Caribou Biosciences, Inc.

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

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