



C57BL/6^J *Chd8*^{lox} Lutzky/J

Stock No: 031555 | Chd8 floxed

Coisogenic, Endonuclease-Mediated Mutation



AVAILABLE

PLACE ORDER

Live mice available in varying quantities. Ask Customer Service for details.

Overview

Also Known As: Chd8 floxed

This CRISPR/Cas9 generated *Chd8*^{lox} mutant of the *Chd8* gene carries a floxed exon 3. This strain may be useful for generating conditional mutations in applications related to the study of chromatin remodeling and autism spectrum disorder.

Donating Investigator

Cathleen Lutz, The Jackson Laboratory

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GENETIC OVERVIEW

Genetic Background

Generation

[N2F3](#)

(2019-02-19 00:00:00)

Chd8^{em3Lutzy}

Allele Type

Gene Symbol

Gene Name

Endonuclease-mediated
(Conditional ready (e.g.
floxed))

Chd8

chromodomain helicase DNA binding protein 8

[VIEW GENETICS](#)

RESEARCH APPLICATIONS

Research Tools

Neurobiology Research

Developmental Biology Research

[VIEW ALL RESEARCH APPLICATIONS](#)

BASE PRICE

Starting at:

\$255.00 Domestic price for female

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[- Details](#)

[- Detailed Description](#)

CRISPR/cas9 endonuclease mediated genome editing of the *Chd8*, chromodomain helicase DNA binding protein 8, gene, also known as Duplin, was used to introduce *loxP* sites flanking exon 3. The targeted *Chd8* gene encodes a DNA helicase involved in epigenetic (chromatin) remodeling and transcriptional regulation. Mutations in this gene have been associated with autism spectrum disorder. These mice possess *loxP* sites on either side of exon 3 of the targeted gene. Mice that are homozygous for this allele are viable and fertile. When these mutant mice are bred to mice that express Cre recombinase, resulting offspring will have exon 3 deleted in the *cre*-expressing tissues. Removal of the floxed sequence creates a null allele. As the mice are characterized, we will modify the strain description and add phenotype data.

This model was generated in collaboration with the Simons Foundation Autism Research Initiative (SFARI).

[+ Development](#)

[+ Control Suggestions](#)

Genetics

[+ Chd8^{em3Lutz}](#)

Disease/Phenotype

[+ Disease Terms](#)

[+ Research Areas By Genotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

Technical Support

CHAT OFFLINE

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Genotyping Protocols

Probe: [Chd8 Exon3 \(3' LoxP\) - Probe](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

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

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the Chd8 floxed mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #031555 in your Materials and Methods section.

[Animal Health Reports](#)

[Facility Barrier Level Descriptions](#)

 [AX9 \(Standard\)](#)

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Available

Domestic **International**

Pricing effective for USA, Canada and Mexico shipping destinations

Live Mouse

| AGE | SEX | GENOTYPE | PRICE |
|------------------|--------|---------------------------------------------------------|----------|
| Approx 4-8 weeks | Female | Homozygous for Chd8 ^{emβLutz} | \$255.00 |
| | Male | Homozygous for Chd8 ^{emβLutz} | \$255.00 |

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