**C57BL/6J-Chd8<sup>floxed/Lutz</sup>/J**

**Stock No:** 031555 | Chd8 floxed

- Coisogenic
- Endonuclease-Mediated Mutation

**AVAILABLE**

**PLACE ORDER**

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

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**Overview**

**Also Known As:** Chd8 floxed

This CRISPR/Cas9 generated Chd8<sup>flox</sup> 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
GENETIC OVERVIEW

Genetic Background

N2F5
(2019-12-17 00:00:00)

Chd8<sup>em3Lutzy</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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</thead>
<tbody>
<tr>
<td>Endonuclease-mediated (Conditional ready (e.g. floxed))</td>
<td>Chd8</td>
<td>chromodomain helicase DNA binding protein 8</td>
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RESEARCH APPLICATIONS

Research Tools
Neurobiology Research
Developmental Biology Research

BASE PRICE

Starting at:

$255.00 Domestic price for female 4-week

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
Genotype

Probe: Chd8 Exon3 (3' LoxP) - Probe Alternate 3

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.

Pricing & Availability
Live mice available in varying quantities. Ask Customer Service for details.
<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<td>4 weeks</td>
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<td></td>
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