C57BL/6J-Cdh23<sup>12/J</sup>

Stock No: 005462 | neuroscience mutagenesis facility, 308

Chemically Induced Mutation, Coisogenic

CRYO RECOVERY

PLACE ORDER

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

Overview

Also Known As: neuroscience mutagenesis facility, 308

This model of model of human autosomal recessive nonsyndromic deafness (DFNB12) has proven valuable in the assessment of otoprotective drug therapies.

The Jackson Laboratory cannot guarantee that cryorecovery of strains from the discontinued NIH-funded Neuroscience Mutagenesis Facility (NMF) will be successful or that the anticipated phenotype or genotype will be obtained. The cryorecovery fee for this effort will not be refunded or prorated if the recovery is unsuccessful or is in any way unsatisfactory. Genotyping will be the responsibility of the Purchaser.
GENETIC OVERVIEW

Genetic Background  Generation
000664 C57BL/6J

Cdh23<sup>12J</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tr>
<td>Chemically induced (ENU)</td>
<td>Cdh23</td>
<td>cadherin 23 (otocadherin)</td>
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VIEW GENETICS

RESEARCH APPLICATIONS

Sensorineural Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

Mice homozygous for this allele develop progressive hearing loss due to cochlear hair cell degeneration, but they do not display a vestibular defect. Auditory brainstem response has shown deficits as early as 26 days of age and complete deafness by approximately 3 months of age, a useful window of time for assessing otoprotective intervention. Stereocilia deformities have been found, particularly at the tip, with the loss of tip links. Hair cell degeneration initiates near the base of the cochlea, and spreads toward the apical turn with nearly complete loss of outer hair cells by 3 months of age. Inner hair cell loss is found at 5 months of age and loss of spiral ganglion cells has also been found after 5 months of age. Hair cell loss involves an apoptotic mechanism and anti-apoptotic inhibition has been shown to reduce hearing loss.

Development

Selected References

Genetics
Genotyping Protocols
Genotyping resources and troubleshooting

Citation
When using the mouse somatic cell mutagenesis facility, 308 mouse strain in a publication, please cite the originating article(s) and include JAX stock #005432 in your Materials and Methods section.

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

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

<table>
<thead>
<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>heterozygous for nmf308 - there is no genotyping available for this strain.</td>
<td>$2,854.50</td>
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</table>
We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a Dedicated Supply for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

Payment Terms and Conditions
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.

Terms Of Use
Terms of Use
General Terms and Conditions

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

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Related Strains

- All
- By Allele
- By Gene
- By Collection

All Related Strains