STOCK Cln3 tm1.1Mem/J

Stock No: 004685 | Cln3deltaex7/8

Targeted Mutation

CRYO RECOVERY

PLACE ORDER

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

Also Known As: Cln3deltaex7/8

These Cln3 knock-out mice exhibit retinal degeneration, neurodegeneration, and reduced survival.

Donating Investigator

Dr. Marcy E MacDonald, Massachusetts General Hospital

READ MORE +

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tr>
<td>Cln3tm1.1Mem</td>
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Allele Type       Gene Symbol | Gene Name
Targeted (Null/Knockout) Cln3  ceroid lipofuscinosis, neuronal 3, juvenile (Batten, Spielberg-Vogt disease)

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

$2,595.00 Domestic price Cryo Recovery
Details

Detailed Description

Mice that are homozygous for the targeted mutation are viable and fertile, but have reduced survival, which drops to 80% by 12 months of age. Northern blot and RT-PCR analyses of kidney, liver and brain tissue from homozygotes detect mutant mRNA. Truncated polypeptide and non-truncated alternatively spliced gene products are present. This 1.02kb deletion mutation replicates the most common mutation (>80%) found in Juvenile-onset neuronal ceroid lipofuscinosis (JNCL) patients. Autofluorescent lysosomal material containing immunoreactive ATPase subunit c are found in all tissues. Neuron and hepatocyte membrane deposits begin to accumulate as early as E19.5. Electron microscopic analysis reveals inclusions characteristic of JNCL tissue. Hypopigmented homozygotes exhibit retinal degeneration beginning at 10 months of age. Gliosis in the CNS and abnormal clasping behavior and gait traces indicate neurodegeneration. Onset and severity of disease phenotype is variable, which might be due to the mixed genetic background. Heterozygous mice do not display the phenotype. This mutant mouse strain may be useful in studies of Juvenile-onset neuronal ceroid lipofuscinosis (JNCL), Batten or Spielmeyer-Vogt disease.

Development

Control Suggestions

Selected References

Genetics

Cln3<sup>101.1Mem</sup>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
MELT: Cln3<sup>tm1.1Mem</sup> alternate 2
Genotyping resources and troubleshooting

Breeding Considerations
The resulting line was then bred a CMV-cre transgenic strain to delete the neo cassette from the targeted allele. The strain is maintained on an outbred 129SvEv, CD1 background. When held in a live colony, it is maintained as a hemizygote.

Additional Breeding and Husbandry Support

Citation
When using the Cln3<sup>tm1.1Mem</sup> mouse strain in a publication, please cite the originating article(s) and include JAX stock #004685 in your Materials and Methods section.

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.

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<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or Homozygous for Cln3&lt;sup&gt;tm1.1Mem&lt;/sup&gt;, 1 pair minimum</td>
<td>$2,595.00</td>
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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.

Cryo recovery 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.

Related Products and Services

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<tr>
<td>Frozen Mouse Embryo</td>
<td>$2,595.00 per straw or vial</td>
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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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Terms of Use

General Terms and Conditions

Licensing Information

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

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## Related Strains

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All Related Strains
Leading the search for

TOMORROW'S CURES