Overview

These mice carry a spontaneous mutation at the Cln6 locus characterized by abnormal proteolipid storage by lysosomes (neuronal ceroid lipofuscinosis).

## Genetic Overview

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spontaneous</td>
<td>a</td>
<td>nonagouti</td>
</tr>
<tr>
<td>Cln6ncif</td>
<td>Cln6</td>
<td>ceroid-lipofuscinosis, neuronal 6</td>
</tr>
</tbody>
</table>

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

Important Note
This strain is homozygous for the retinal degeneration allele \( Pde6b^{rd1} \).

Detailed Description
Mice homozygous for the neuronal ceroid lipofuscinosis mutation (nclf) have a phenotype that is very similar to mice homozygous for the motor neuron degeneration mutation (mnd). Homozygous mutant mice display abnormal proteolipid storage by lysosomes termed neuronal ceroid lipofuscinosis. Mice also develop progressive retinal degeneration at an early age. Affected neuronal lysosomes show abnormal morphology. Severe cerebral gliosis and Wallerian degeneration of long neuronal tracts occur late in the disease and account for the motor neuron abnormalities and eventual paralysis. Homozygotes live to approximately 9 months of age.

Development

Control Suggestions

Genetics

\( a \)

\( Cln6^{nclf} \)

Disease/Phenotype

Disease Terms

Research Areas By Phenotype
Genotyping Protocols
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, homozygous mice may be bred together.

Additional Breeding and Husbandry Support

Appearance
black
Related Genotype: a/a
Citation
When using the neuronal ceroid lipofuscinosis mouse strain in a publication, please cite the originating article(s) and include JAX stock #002648 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

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

### Cryorecovery - Domestic Pricing

<table>
<thead>
<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Homozygous for Cln6&lt;nclf&gt;, 1 pair minimum</td>
<td>$2,854.50</td>
</tr>
</tbody>
</table>
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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