Mice homozygous for the \textit{hmcns} mutation have diminished myelin in the central nervous system, although peripheral axons appear normally myelinated. There are abundant late-stage process-extending oligodendrocytes, but these fail to myelinate the central nervous system and have diminished expression of an array of myelin-related genes. Homozygotes can be identified by approximately 14 days of age by a tremor and tonic seizures. At 14 days of age the brain and spinal cord appear smaller than normal and lack white matter. Most homozygotes die by 25 days of age.
## GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td>Zfp24&lt;sup&gt;hmcns&lt;/sup&gt;</td>
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</tbody>
</table>

<table>
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<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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</thead>
<tbody>
<tr>
<td>Spontaneous</td>
<td>Zfp24</td>
<td>zinc finger protein 24</td>
</tr>
</tbody>
</table>

## RESEARCH APPLICATIONS

- Developmental Biology Research
- Neurobiology Research

## BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

## Details

### Detailed Description

Mice homozygous for the <i>hmcns</i> mutation have diminished myelin in the central nervous system, although peripheral axons appear normally myelinated. There are abundant late-stage process-extending oligodendrocytes, but these fail to myelinate the central nervous system and have diminished expression of an array of myelin-related genes. Homozygotes can be identified by approximately 14 days of age by a tremor and tonic seizures. At 14 days of age the brain and spinal cord appear smaller than normal and lack white matter. Most homozygotes die by 25 days of age.

### Development

### Control Suggestions

### Selected References
Genotyping Protocols
Sanger sequencing: Zfp191
Genotyping resources and troubleshooting

Citation
When using the C3.Cg-a.Zfp24<sup>hmcns</sup>/GrsrJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #005327 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/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or wildtype for Zfp191&lt;hmcns&gt;</td>
<td>$2,854.50</td>
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</table>
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All

By Allele

By Gene

By Collection

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