This comparatively mild point mutation in the second transmembrane domain provides an excellent model for Dejerine-Sottas syndrome, Roussy-Levy syndrome, recurrent neuropathy with pressure palsies, and types 1A and 1E Charcot-Marie-Tooth disease.
## GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>00664 C57BL/6J</td>
<td></td>
</tr>
</tbody>
</table>

### Pmp22Tr-2J

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spontaneous</td>
<td>Pmp22</td>
<td>peripheral myelin protein 22</td>
</tr>
</tbody>
</table>

## RESEARCH APPLICATIONS

Sensorineural Research  
Neurobiology Research  
Reproductive Biology Research

## BASE PRICE

Starting at: $2,854.50 Domestic price Cryo Recovery

## Details

Trembler 2 Jackson heterozygotes can be identified by approximately 3 weeks of age by a rapid tremor and unsteady, wobbly gait. They have spasticity in the muscles of the lower back and limbs and reduced ability to organize the hind limb movements. These phenotypes derive from peripheral demyelination. Although heterozygotes for this allele have not been found to die prematurely, male fertility is reduced. Some, but not all, heterozygotes have elevated auditory brainstem responses. This allele causes a less severe phenotype than the trembler mutation, with no paralysis, seizures, or juvenile mortality.

## Development

## Control Suggestions

## Selected References

## Genetics
Genotyping Protocols
Genotyping resources and troubleshooting

Breeding Considerations
Because heterozygous males often fail to breed it is best to use heterozygous females to transmit this dominant mutation.

Additional Breeding and Husbandry Support

Mating System
Heterozygote x C57BL/6J (000664)

Citation
When using the C57BL/6J-Pmp22<Tr-2J>/GrsrJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #021550 in your Materials and Methods section.

Animal Health Reports

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>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or wildtype for Pmp22&lt;Tr-2J&gt;</td>
<td>$2,854.50</td>
</tr>
</tbody>
</table>
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