129S-Scn1a^{tm1Kae}/Mmjax

MMRRC Stock No: 37107-JAX

Coisogenic, Targeted Mutation

AVAILABLE FOR REGISTERING INTEREST

Overview

This strain is currently unavailable due to replenishing of cryopreserved stocks.

Mice homozygous for the Scn1a (voltage gated sodium channel) knockout allele exhibit tremors, ataxia, seizures and die by postnatal day 16. Heterozygous mice on the 129S6/SvEvTac background do not exhibit an overt phenotype, however, on the C57BL/6 background mice develop spontaneous seizures and die within weeks. This strain may be useful for genetic analysis of epilepsy and Dravet syndrome.

Genetic overview

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
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<tbody>
<tr>
<td>Scn1a^{tm1Kae}</td>
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<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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</thead>
<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Scn1a</td>
<td>sodium channel, voltage-gated, type I, alpha</td>
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</tbody>
</table>

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