Overview

This strain carries a *lacZ* knock-in allele of the *Scn9a*, sodium channel, voltage-gated, type IX, alpha gene. It may be useful in studies of synaptic transmission and nociception.

**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Scn9a&lt;sub&gt;tm1Dgen&lt;/sub&gt;</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Allele Type**
Targeted (Reporter, Null/Knockout)

**Gene Symbol**
Scn9a

**Gene Name**
sodium channel, voltage-gated, type IX, alpha

**RESEARCH APPLICATIONS**

Research Tools
Neurobiology Research
Sensorineural Research

**BASE PRICE**
Starting at:
Details

Detailed Description

This targeted mutant was created and characterized by Deltagen, Inc. View phenotypic data developed by Deltagen. Heterozygotes exhibit increased prepulse inhibition compared to wildtype controls. While this strain has not been specifically tested, mice heterozygous for another knock-out allele of this same gene exhibit insensitivity to pain.

Development

Expression Data

Control Suggestions

Genetics

$\text{Scn9a}^{\text{tm1Dgen}}$

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References
Technical Support

C O N T A C T  T E C H N I C A L  S U P P O R T

Genotyping Protocols
Standard PCR: Scn9a
Genotyping resources and troubleshooting

Citation
When using the Scn9a lacZ knock-in/knock-out mouse strain in a publication, please cite the originating article(s) and include JAX stock #005836 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

Cryo Recovery
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 Wild-type for Scn9a&lt;tm1Dgen&gt;</td>
<td>$2,854.50</td>
</tr>
</tbody>
</table>

RELATED PRODUCTS AND SERVICES

| Frozen Mouse Embryo          | B6.129P2-Scn9a<tm1Dgen>/J Frozen Embryos          | $2595.00 |

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.

THE JACKSON LABORATORY'S GENOTYPE PROMISE

The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. Therefore, we cannot guarantee a strain's phenotype will meet all expectations. To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project. We do not guarantee breeding performance and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

Terms Of Use

TERMS OF USE

General Terms and Conditions

QUESTIONS ABOUT TERMS OF USE

ADDITIONAL USE RESTRICTIONS APPLY

Use of MICE by academics, non-profits, companies or for-profit entities requires a license prior to shipping.

LICENSING INFORMATION

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

Related Strains