

## B6(Cg)-Scn1a<sup>tm1.1Dsf</sup>/J

Stock No: 026133 | floxed stop Scn1a\*A1783V

 Congenic, Targeted Mutation

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

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These conditional *Scn1a*-A1783V mice express the Dravet Syndrome/SMEI-associated mutation A1783V in the presence of Cre recombinase, and exhibit Dravet-like phenotypes including spontaneous seizures.

Of note, this strain is "open access", and available to for-profit organizations.

### Donating Investigator

Dravet Syndrome Foundation , Spain

READ MORE +

## GENETIC OVERVIEW

Genetic Background

Generation

### Scn1a<sup>tm1.1Dsf</sup>

#### Alele Type

Targeted (Conditional ready (e.g. floxed), Humanized sequence, No functional change)

#### Gene Symbol

*Scn1a*

#### Gene Name

sodium channel, voltage-gated, type I, alpha

VIEW GENETICS

## RESEARCH APPLICATIONS

Neurobiology Research  
Research Tools

VIEW ALL RESEARCH APPLICATIONS

## BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W   P R I C E   L I S T

### Details

#### Detailed Description

*Scn1a* encodes the large alpha subunit of the type I voltage sensitive sodium channel essential for the generation and propagation of action potentials in nerve and muscle. Several mutations in the domain IV S6 transmembrane region, including A1783V, are associated with SMEI (severe myoclonic epilepsy in infancy) and Dravet Syndrome, a convulsive disorder with psychomotor delay, ataxia, and cognitive impairment.

When these conditional *Scn1a* mice are bred to mice that express cre recombinase, resulting offspring express the A1783V mutation in the cre-expressing tissues. Depending on the genetic background of the cre line used, mice display a lethal seizure phenotype at about three weeks of age: greater than 80% of heterozygotes survive with a ubiquitous cre on a 129 background, but less than 40% survive on a pure B6 background. Viable mice exhibit spontaneous seizures, motor stereotypies, and hyperactivity. This strain may be useful for studying SMEI and Dravet Syndrome.

#### Development

#### Control Suggestions

#### Selected References

### Genetics

#### *Scn1a*<sup>tm1.1Dsf</sup>

### Disease/Phenotype

[+ Disease Terms](#)

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[+ Research Areas By Phenotype](#)

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[+ Mammalian Phenotype Terms by Genotype](#)

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[+ References](#)

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## [- 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

Sanger sequencing:[Scn1aSEQ](#)

Separated PCR:[Scn1a](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

While maintaining a live colony, these mice are bred as heterozygotes. The donating investigator has not attempted to generate homozygous mice to date (February 2015).

#### [Additional Breeding and Husbandry Support](#)

### Mating System

Wild-type x Heterozygote

C57BL/6J (000664) x Heterozygote

Heterozygote x C57BL/6J (000664)

Heterozygote x Wild-type

### Citation

When using the floxed stop *Scn1a*<sup>A1783V</sup> mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #026133 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](#)



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## Domestic | International

Pricing effective for USA, Canada and Mexico shipping destinations

### CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Heterozygous or wildtype for	\$2,854.50

## 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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## Terms Of Use

### TERMS OF USE

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Q U E S T I O N S   A B O U T   T E R M S   O F   U S E

### ADDITIONAL USE RESTRICTIONS APPLY

[Notice regarding distribution of this strain.](#)

### LICENSING INFORMATION

Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)

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