

**B6.129-Smn1<sup>tm1Jme</sup>/J**  
Stock No: **006146** | SMN<sup>F7</sup>

 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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conditional mutations in applications related to human spinal muscular atrophy (SMA) or other neuromuscular degenerative diseases.

### Donating Investigator

Judith Melki, Genopole, Inserm U798

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## GENETIC OVERVIEW

Genetic Background

Generation

*Smn1<sup>tm1Jme</sup>*

**Alele Type**

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

**Gene Symbol**

*Smn1*

**Gene Name**

survival motor neuron 1

VIEW GENETICS

## RESEARCH APPLICATIONS

Research Tools

Neurobiology Research

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

Mice homozygous for this  $SMN^{F7}$  floxed allele are viable and fertile and do not display any gross physical or behavioral abnormalities. Mutant mice exhibit no transcript splicing defects. Cre-mediated recombination of the *loxP*-flanked sequences results in deletion of exon 7 of the targeted gene. As mutations of this exon are implicated in 95% of all human spinal muscular atrophy (SMA), these mice may be useful in studying SMA or other neuromuscular degenerative diseases.

When crossed to a strain expressing Cre recombinase in neurons (see Stock No. [005938](#), Stock No. [006297](#), and Stock No. [006663](#)), this mutant mouse strain may be useful as a model of SMA.

When crossed to a strain expressing Cre recombinase in striated muscle fibers (see Stock No. [005936](#), Stock No. [006139](#), and Stock No. [006149](#)), this mutant mouse strain may be useful as a model of SMA.

*$SMN^{F7}$  mice are available on different genetic backgrounds (see Stock No. [006138](#) and Stock No. [006146](#)). In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. It should be noted that the  $SMN^{F7}$  phenotype could vary from that originally described on a mixed genetic background. We will modify the strain description if necessary as published results become available.*

Importation of this model was supported by the Spinal Muscular Atrophy Foundation. Creation and development was supported by the National Institute of Health and Medical Research of France (Inserm) and the Association Française contre les Myopathies (AFM). An additional help was provided by Families of SMA (U.S.A.) and Andrew's Buddies (U.S.A.).

#### Development

#### Control Suggestions

#### Selected References

### Genetics

#### $Smn1^{tm1Jme}$

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## ⊖ 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

Standard PCR:[Smn1](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

When maintaining a live colony, homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

### Citation

When using the SMN<sup>F7</sup> mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #006146 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](#)*

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## ⊖ Pricing & Availability



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

## Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

### CRYORECOVERY - DOMESTIC PRICING

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

### RELATED PRODUCTS AND SERVICES

<a href="#">Frozen Mouse Embryo</a>	B6.129-Smn1<tm1Jme>/J	\$2595.00
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## 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

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QUESTIONS ABOUT TERMS OF USE

### ADDITIONAL USE RESTRICTIONS APPLY

[Use of MICE by companies or for-profit entities requires a license.](#)

### LICENSING INFORMATION

Phone: 207-288-6470

## Related Strains

All

By Allele

By Gene

By Collection



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