# Resource Summary Report

Generated by PRECISE-TBI on Aug 3, 2026

## FVB.Cg-Grm7$^{Tg(SMN2)89Ahmb}$ Smn1 Tg(SMN2*delta7)4299Ahmb/J

RRID:IMSR_JAX:005025
Type: Organism

### Proper Citation

RRID:IMSR_JAX:005025

### Organism Information

**URL:** https://www.jax.org/strain/005025

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**Description:** Mus musculus with name FVB.Cg-Grm7$^{Tg(SMN2)89Ahmb}$ Smn1 Tg(SMN2*delta7)4299Ahmb/J from IMSR.

**Species:** Mus musculus

**Synonyms:** SMNdelta7;SMN2;Smn-/-. FVB.Cg-Tg(SMN2*delta7)4299Ahmb Tg(SMN2)89Ahmb Smn1/J. Moderate Type II SMA mice. FVB.Cg-Tg(SMN2)89Ahmb Smn1 Tg(SMN2*delta7)4299Ahmb/J

**Notes:** gene symbol note: beta-galactosidase|glutamate receptor; metabotropic 7|survival motor neuron 1|survival of motor neuron 2; centromeric|transgene insertion 4299; Arthur H M Burghes; mutant strain|congenic strain: lacZ|Grm7|Smn1|SMN2|Tg(SMN2*delta7)4299Ahmb

**Affected Gene:** beta-galactosidase|glutamate receptor; metabotropic 7|survival motor neuron 1|survival of motor neuron 2; centromeric|transgene insertion 4299; Arthur H M Burghes

**Genomic Alteration:** targeted mutation 1; Michael Sendtner|transgene insertion 89; Arthur H M Burghes|transgene insertion 4299; Arthur H M Burghes

**Catalog Number:** JAX:005025

**Database:** JAX Mice and Services

**Database Abbreviation:** JAX

**Availability:** live

**Organism Name:** FVB.Cg-Grm7$^{Tg(SMN2)89Ahmb}$ Smn1 Tg(SMN2*delta7)4299Ahmb/J

**Record Creation Time:** 20250513T053647+0000

**Record Last Update:** 20260801T050351+0000

## Ratings and Alerts

No rating or validation information has been found for FVB.Cg-Grm7$^{Tg(SMN2)89Ahmb}$ Smn1 Tg(SMN2*delta7)4299Ahmb/J.

No alerts have been found for FVB.Cg-Grm7$^{Tg(SMN2)89Ahmb}$ Smn1 Tg(SMN2*delta7)4299Ahmb/J.

## Data and Source Information

**Source:** Integrated Animals

**Source Database:** JAX Mice and Services

## Usage and Citation Metrics

We found 10 mentions in open access literature.

**Listed below are recent publications.** The full list is available at PRECISE-TBI .

Pagiazitis JG, et al. (2025) Catecholaminergic dysfunction drives postural and locomotor deficits in a mouse model of spinal muscular atrophy. Cell reports, 44(1), 115147.

Hann SH, et al. (2024) Depletion of SMN protein in mesenchymal progenitors impairs the development of bone and neuromuscular junction in spinal muscular atrophy. eLife, 12.

Sutton ER, et al. (2024) Liver SMN restoration rescues the Smn2B/- mouse model of spinal muscular atrophy. EBioMedicine, 110, 105444.

Hennlein L, et al. (2023) Plastin 3 rescues cell surface translocation and activation of TrkB in spinal muscular atrophy. The Journal of cell biology, 222(3).

Kim JK, et al. (2023) A spinal muscular atrophy modifier implicates the SMN protein in SNARE complex assembly at neuromuscular synapses. Neuron, 111(9), 1423.

Tisdale S, et al. (2022) SMN controls neuromuscular junction integrity through U7 snRNP. Cell reports, 40(12), 111393.

Miralles MP, et al. (2022) Survival motor neuron protein and neurite degeneration are regulated by Gemin3 in spinal muscular atrophy motoneurons. Frontiers in cellular neuroscience, 16, 1054270.

Vukojicic A, et al. (2019) The Classical Complement Pathway Mediates Microglia-Dependent Remodeling of Spinal Motor Circuits during Development and in SMA. Cell

reports, 29(10), 3087.

Simon CM, et al. (2019) Stasimon Contributes to the Loss of Sensory Synapses and Motor Neuron Death in a Mouse Model of Spinal Muscular Atrophy. Cell reports, 29(12), 3885.

Luchetti A, et al. (2015) A Perturbed MicroRNA Expression Pattern Characterizes Embryonic Neural Stem Cells Derived from a Severe Mouse Model of Spinal Muscular Atrophy (SMA). International journal of molecular sciences, 16(8), 18312.