

Resource Summary Report

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FVB.Cg-Grm7Tg(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>

Proper Citation: RRID:IMSR_JAX:005025

Description: Mus musculus with name FVB.Cg-Grm7Tg(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: survival of motor neuron 2; centromeric|beta-galactosidase|survival motor neuron 1|transgene insertion 4299; Arthur H M Burghes|glutamate receptor; metabotropic 7; mutant strain|congenic strain: SMN2|lacZ|Smn1|Tg(SMN2*delta7)4299Ahmb|Grm7

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

Genomic Alteration: transgene insertion 4299; Arthur H M Burghes|targeted mutation 1; Michael Sendtner|transgene insertion 89; 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: 20260905T044429+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 11 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Sutton ER, et al. (2026) Maternal-Fetal Administration of Risdiplam Partially Rescues the SMN^{???} Mouse Model of Spinal Muscular Atrophy. *Annals of neurology*.

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.

Vukojcic 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.