Resource Summary Report

Generated by kravitz2 on Jul 30, 2026

B6.Cg-Tg(ACTA1-cre)79Jme/J

RRID:IMSR_JAX:006149
Type: Organism

Proper Citation

RRID:IMSR_JAX:006149

Organism Information

URL: https://www.jax.org/strain/006149

Proper Citation: RRID:IMSR_JAX:006149

Description: Mus musculus with name B6.Cg-Tg(ACTA1-cre)79Jme/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: transgene insertion 79; Judith Melki|actin; alpha 1; skeletal muscle|; mutant strain: Tg(ACTA1-cre)79Jme|ACTA1|

Affected Gene: transgene insertion 79; Judith Melki|actin; alpha 1; skeletal muscle|

Genomic Alteration: transgene insertion 79; Judith Melki

Catalog Number: JAX:006149

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Tg(ACTA1-cre)79Jme/J

Record Creation Time: 20250513T053655+0000

Record Last Update: 20260725T044406+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Tg(ACTA1-cre)79Jme/J.

No alerts have been found for B6.Cg-Tg(ACTA1-cre)79Jme/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 30 mentions in open access literature.

Listed below are recent publications. The full list is available at kravitz2 .

Aoto M, et al. (2025) The splicing factor Acin1 is essential for embryonic development but has limited effects on muscle structure and homeostasis. Scientific reports, 15(1), 14017.

Fan W, et al. (2025) Estrogen-related receptors regulate innate and adaptive muscle mitochondrial energetics through cooperative and distinct actions. Proceedings of the National Academy of Sciences of the United States of America, 122(20), e2426179122.

Jang HR, et al. (2025) Skeletal Muscle-Specific Deletion of E3 Ligase Asb2 Enhances Muscle Mass and Strength. Journal of cachexia, sarcopenia and muscle, 16(4), e70007.

Bareja A, et al. (2024) Liver-derived plasminogen mediates muscle stem cell expansion during caloric restriction through the plasminogen receptor Plg-RKT. Cell reports, 43(3), 113881.

Duvick L, et al. (2024) Mapping SCA1 regional vulnerabilities reveals neural and skeletal muscle contributions to disease. JCI insight, 9(9).

Domaniku-Waraich A, et al. (2024) Oncostatin M signaling drives cancer-associated skeletal muscle wasting. Cell reports. Medicine, 5(4), 101498.

Eguchi T, et al. (2024) Calcium-binding protein 7 expressed in muscle negatively regulates age-related degeneration of neuromuscular junctions in mice. iScience, 27(2), 108997.

Zhang J, et al. (2024) Localized release of muscle-generated BDNF regulates the initial formation of postsynaptic apparatus at neuromuscular synapses. Cell death and differentiation.

Sopariwala DH, et al. (2023) Innately expressed estrogen-related receptors in the skeletal muscle are indispensable for exercise fitness. FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 37(2), e22727.

Moon SH, et al. (2023) Genetic deletion of skeletal muscle iPLA2? results in mitochondrial dysfunction, muscle atrophy and alterations in whole-body energy metabolism. iScience, 26(6), 106895.

Sadaki S, et al. (2023) Large Maf transcription factor family is a major regulator of fast type IIb myofiber determination. Cell reports, 42(4), 112289.

Duvick L, et al. (2023) Regional vulnerability in a neurodegenerative disease: Delineating SCA1 CNS and muscle therapeutic targets using a conditional mutant ATXN1 mouse. bioRxiv : the preprint server for biology.

Mousa MG, et al. (2023) Site-1 protease inhibits mitochondrial respiration by controlling the TGF-? target gene Mss51. Cell reports, 42(4), 112336.

Cao Y, et al. (2022) O-GlcNAcylation of SIRT1 Protects against Cold Stress-Induced Skeletal Muscle Damage via Amelioration of Mitochondrial Homeostasis. International journal of molecular sciences, 23(23).

Singlár Z, et al. (2022) Genetic Manipulation of CB1 Cannabinoid Receptors Reveals a Role in Maintaining Proper Skeletal Muscle Morphology and Function in Mice. International journal of molecular sciences, 23(24).

Li SZ, et al. (2022) NLK is required for Ras/ERK/SRF/ELK signaling to tune skeletal muscle development by phosphorylating SRF and antagonizing the SRF/MKL pathway. Cell death discovery, 8(1), 4.

Gönczi M, et al. (2022) Septin7 is indispensable for proper skeletal muscle architecture and function. eLife, 11.

Chen WJ, et al. (2022) Ribonucleotide reductase M2B in the myofibers modulates stem cell fate in skeletal muscle. NPJ Regenerative medicine, 7(1), 37.

Huang Z, et al. (2022) Brown adipose tissue involution associated with progressive restriction in progenitor competence. Cell reports, 39(2), 110575.

Kaplan MM, et al. (2022) Counteractive and cooperative actions of muscle ?-catenin and CaV1.1 during early neuromuscular synapse formation. iScience, 25(4), 104025.