Resource Summary Report

Generated by RRID on Jul 29, 2026

B6.FVB-Tg(Myh11-icre/ERT2)1Soff/J

RRID:IMSR_JAX:019079
Type: Organism

Proper Citation

RRID:IMSR_JAX:019079

Organism Information

URL: https://www.jax.org/strain/019079

Proper Citation: RRID:IMSR_JAX:019079

Description: Mus musculus with name B6.FVB-Tg(Myh11-icre/ERT2)1Soff/J from IMSR.

Species: Mus musculus

Synonyms: B6.FVB-Tg(Myh11-cre/ERT2)1Soff/J

Notes: gene symbol note: myosin; heavy polypeptide 11; smooth muscle|Cre recombinase and estrogen receptor 1 (human) fusion gene|transgene insertion 1; Stefan Offermanns; mutant strain|congenic strain: Myh11|cre/ERT2|Tg(Myh11-icre/ERT2)1Soff

Affected Gene: myosin; heavy polypeptide 11; smooth muscle|Cre recombinase and estrogen receptor 1 (human) fusion gene|transgene insertion 1; Stefan Offermanns

Genomic Alteration: transgene insertion 1; Stefan Offermanns

Catalog Number: JAX:019079

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.FVB-Tg(Myh11-icre/ERT2)1Soff/J

Record Creation Time: 20250513T053740+0000

Record Last Update: 20260725T044448+0000

Ratings and Alerts

No rating or validation information has been found for B6.FVB-Tg(Myh11-icre/ERT2)1Soff/J.

No alerts have been found for B6.FVB-Tg(Myh11-icre/ERT2)1Soff/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 39 mentions in open access literature.

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

Zawieja SD, et al. (2025) Cellular characterization of the mouse collecting lymphatic vessels reveals that lymphatic muscle cells are the innate pacemaker cells. eLife, 12.

Dang K, et al. (2025) Mesenchymal Hippo signaling regulates intestinal homeostasis in adult mice. iScience, 28(2), 111847.

Westfall S, et al. (2025) A type 1 immune-stromal cell network mediates disease tolerance against intestinal infection. Cell, 188(12), 3135.

Tan JME, et al. (2025) PRDM16 controls smooth muscle cell fate in atherosclerosis. bioRxiv : the preprint server for biology.

Tan JME, et al. (2025) PRDM16 regulates smooth muscle cell identity and atherosclerotic plaque composition. Nature cardiovascular research, 4(11), 1573.

Huang F, et al. (2024) Inositol 1,4,5-Trisphosphate Receptors Regulate Vascular Smooth Muscle Cell Proliferation and Neointima Formation in Mice. Journal of the American Heart Association, 13(15), e034203.

Lambert J, et al. (2024) Network-based prioritization and validation of regulators of vascular smooth muscle cell proliferation in disease. Nature cardiovascular research, 3(6), 714.

Hamacher C, et al. (2024) A revised conceptual framework for mouse vomeronasal pumping and stimulus sampling. Current biology : CB, 34(6), 1206.

Zhang Y, et al. (2024) Paxillin participates in the sphingosylphosphorylcholine-induced abnormal contraction of vascular smooth muscle by regulating Rho-kinase activation. Cell communication and signaling : CCS, 22(1), 58.

Kim HJ, et al. (2023) ERG K+ channels mediate a major component of action potential repolarization in lymphatic muscle. Scientific reports, 13(1), 14890.

Schreier B, et al. (2023) Assessment of the Role of Endothelial and Vascular Smooth Muscle EGFR for Acute Blood Pressure Effects of Angiotensin II and Adrenergic Stimulation in Obese Mice. Biomedicines, 11(8).

Kaw K, et al. (2023) Smooth muscle ?-actin missense variant promotes atherosclerosis through modulation of intracellular cholesterol in smooth muscle cells. European heart journal, 44(29), 2713.

Davis MJ, et al. (2023) Electric field stimulation unmasks a subtle role for T-type calcium channels in regulating lymphatic contraction. Scientific reports, 13(1), 15862.

Kraiczy J, et al. (2023) Graded BMP signaling within intestinal crypt architecture directs self-organization of the Wnt-secreting stem cell niche. Cell stem cell, 30(4), 433.

St Paul A, et al. (2023) FXR1 regulates vascular smooth muscle cell cytoskeleton, VSMC contractility, and blood pressure by multiple mechanisms. Cell reports, 42(4), 112381.

Pedroza AJ, et al. (2023) Smooth Muscle Cell Klf4 Expression Is Not Required for Phenotype Modulation or Aneurysm Formation in Marfan Syndrome Mice-Brief Report. Arteriosclerosis, thrombosis, and vascular biology, 43(6), 971.

Yu W, et al. (2022) Deletion of Mechanosensory ?1-integrin From Bladder Smooth Muscle Results in Voiding Dysfunction and Tissue Remodeling. Function (Oxford, England), 3(5), zqac042.

Krishnan V, et al. (2022) STIM1-dependent peripheral coupling governs the contractility of vascular smooth muscle cells. eLife, 11.

Garcia SM, et al. (2022) Smooth muscle Acid-sensing ion channel 1a as a therapeutic target to reverse hypoxic pulmonary hypertension. Frontiers in molecular biosciences, 9, 989809.

Liu Y, et al. (2022) Stromal AR inhibits prostate tumor progression by restraining secretory luminal epithelial cells. Cell reports, 39(8), 110848.