

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 α -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 α 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.