Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Mar 28, 2025

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|myosin; heavy polypeptide 11; smooth muscle|Cre recombinase and estrogen receptor 1 (human) fusion gene|transgene insertion 1; Stefan Offermanns; mutant strain: Myh11|cre/ERT2|Tg(Myh11-icre/ERT2)1Soff|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|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: International Mouse Resource Center IMSR, JAX

Database Abbreviation: IMSR

Availability: live

Alternate IDs: IMSR_JAX:19079

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

Record Creation Time: 20230509T193314+0000

Record Last Update: 20240104T175034+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: International Mouse Resource Center IMSR, JAX

Usage and Citation Metrics

We found 33 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

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.

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.

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.

Biswas L, et al. (2023) Lymphatic vessels in bone support regeneration after injury. Cell, 186(2), 382.

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.

Marek-Iannucci S, et al. (2021) Autophagy-mitophagy induction attenuates cardiovascular inflammation in a murine model of Kawasaki disease vasculitis. JCI insight, 6(18).

Kim HJ, et al. (2021) Large-conductance calcium-activated K+ channels, rather than KATP channels, mediate the inhibitory effects of nitric oxide on mouse lymphatic pumping. British journal of pharmacology, 178(20), 4119.

Jiang Z, et al. (2021) PDGFRb+ mesenchymal cells, but not NG2+ mural cells, contribute to cardiac fat. Cell reports, 34(5), 108697.

Fleck D, et al. (2021) ATP activation of peritubular cells drives testicular sperm transport. eLife, 10.

Sakhneny L, et al. (2021) The postnatal pancreatic microenvironment guides ? cell maturation through BMP4 production. Developmental cell, 56(19), 2703.

Sivaraj KK, et al. (2021) Regional specialization and fate specification of bone stromal cells in skeletal development. Cell reports, 36(2), 109352.