Resource Summary Report

Generated by ASWG on Aug 9, 2026

B6.Cg-Tg(Tagln-cre)1Her/J

RRID:IMSR_JAX:017491
Type: Organism

Proper Citation

RRID:IMSR_JAX:017491

Organism Information

URL: https://www.jax.org/strain/017491

Proper Citation: RRID:IMSR_JAX:017491

Description: Mus musculus with name B6.Cg-Tg(Tagln-cre)1Her/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: transgelin||transgene insertion 1; Joachim Herz; mutant strain|congenic strain: Tagln||Tg(Tagln-cre)1Her

Affected Gene: transgelin||transgene insertion 1; Joachim Herz

Genomic Alteration: transgene insertion 1; Joachim Herz

Catalog Number: JAX:017491

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Tg(Tagln-cre)1Her/J

Record Creation Time: 20250513T053732+0000

Record Last Update: 20260808T050937+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Tg(Tagln-cre)1Her/J.

No alerts have been found for B6.Cg-Tg(Tagln-cre)1Her/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 27 mentions in open access literature.

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

Ino H, et al. (2026) IL-18 produced by pregnant uterus promotes essential inflammatory responses and fetoplacental growth. Cell reports, 45(1), 116865.

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.

Sirek JM, et al. (2025) Generation of a conditional Adamts6 mouse allele reveals roles in lung maturation in addition to cardiac and musculoskeletal development. Matrix biology plus, 28, 100186.

Su C, et al. (2024) Vascular injury activates the ELK1/SND1/SRF pathway to promote vascular smooth muscle cell proliferative phenotype and neointimal hyperplasia. Cellular and molecular life sciences : CMLS, 81(1), 59.

Xie AX, et al. (2024) Long-term follow-up of TREK-1 KO mice reveals the development of bladder hypertrophy and impaired bladder smooth muscle contractility with age. American journal of physiology. Renal physiology, 326(6), F957.

Ouahoud S, et al. (2023) Loss of bone morphogenetic protein signaling in fibroblasts results in CXCL12-driven serrated polyp development. Journal of gastroenterology, 58(1), 25.

Goodwin K, et al. (2023) Analysis of Cre lines for targeting embryonic airway smooth muscle. Developmental biology, 496, 63.

Matrongolo MJ, et al. (2023) Piezo1 agonist restores meningeal lymphatic vessels, drainage, and brain-CSF perfusion in craniosynostosis and aged mice. The Journal of clinical investigation, 134(4).

Matrongolo MJ, et al. (2023) Loss of Twist1 and balanced retinoic acid signaling from the meninges causes cortical folding in mice. Development (Cambridge, England), 150(18).

Matrongolo MJ, et al. (2023) Piezo1 agonist restores meningeal lymphatic vessels, drainage, and brain-CSF perfusion in craniosynostosis and aged mice. bioRxiv : the preprint server for biology.

Sun LY, et al. (2022) Nuclear Receptor NR1D1 Regulates Abdominal Aortic Aneurysm Development by Targeting the Mitochondrial Tricarboxylic Acid Cycle Enzyme Aconitase-2. Circulation, 146(21), 1591.

Ha JM, et al. (2022) Akt1-dependent expression of angiopoietin 1 and 2 in vascular smooth muscle cells leads to vascular stabilization. Experimental & molecular medicine, 54(8), 1133.

Canalis E, et al. (2022) Induction of a NOTCH3 Lehman syndrome mutation in osteocytes causes osteopenia in male C57BL/6J mice. Bone, 162, 116476.

Sahún-Español Á, et al. (2022) p38 MAPK priming boosts VSMC proliferation and arteriogenesis by promoting PGC1?-dependent mitochondrial dynamics. Scientific reports, 12(1), 5938.

Chattopadhyay A, et al. (2022) Preventing Cholesterol-Induced Perk (Protein Kinase RNA-Like Endoplasmic Reticulum Kinase) Signaling in Smooth Muscle Cells Blocks Atherosclerotic Plaque Formation. Arteriosclerosis, thrombosis, and vascular biology, 42(8), 1005.

Yamazaki Y, et al. (2021) Vascular ApoE4 Impairs Behavior by Modulating Gliovascular Function. Neuron, 109(3), 438.

Ghadge SK, et al. (2021) Smooth Muscle Specific Ablation of CXCL12 in Mice Downregulates CXCR7 Associated with Defective Coronary Arteries and Cardiac Hypertrophy. International journal of molecular sciences, 22(11).

Aguilar-Pineda JA, et al. (2021) Vascular smooth muscle cell dysfunction contribute to neuroinflammation and Tau hyperphosphorylation in Alzheimer disease. iScience, 24(9), 102993.

Fang S, et al. (2021) RNF34 ablation promotes cerebrovascular remodeling and hypertension by increasing NADPH-derived ROS generation. Neurobiology of disease, 156, 105396.