

Resource Summary Report

Generated by [nidm-terms](#) on Jul 29, 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: transgeline|transgene insertion 1; Joachim Herz|; mutant strain|congenic strain: Tagln|Tg(Tagln-cre)1Her|

Affected Gene: transgeline|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: 20260725T044441+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 26 mentions in open access literature.

Listed below are recent publications. The full list is available at [nidm-terms](#) .

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

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

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.

Matrongo 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).

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

Matrongo 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).

Matrongo 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.

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.

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 α -dependent mitochondrial dynamics. *Scientific reports*, 12(1), 5938.

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).

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

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

Kraun D, et al. (2020) NADPH oxidases and HIF1 promote cardiac dysfunction and pulmonary hypertension in response to glucocorticoid excess. *Redox biology*, 34, 101536.