

Resource Summary Report

Generated by [nidm-terms](#) on Aug 9, 2026

B6.Cg-Tg(Tek-cre)1Ywa/J

RRID:IMSR_JAX:008863

Type: Organism

Proper Citation

RRID:IMSR_JAX:008863

Organism Information

URL: <https://www.jax.org/strain/008863>

Proper Citation: RRID:IMSR_JAX:008863

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

Species: Mus musculus

Notes: gene symbol note: TEK receptor tyrosine kinase||transgene insertion 1; Masashi Yanagisawa; congenic strain: Tek||Tg(Tek-cre)1Ywa

Affected Gene: TEK receptor tyrosine kinase||transgene insertion 1; Masashi Yanagisawa

Genomic Alteration: transgene insertion 1; Masashi Yanagisawa

Catalog Number: JAX:008863

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Tg(Tek-cre)1Ywa/J

Record Creation Time: 20250513T053712+0000

Record Last Update: 20260808T050917+0000

Ratings and Alerts

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

Warning: Warning. Researchers have noted that this genotype does not sufficiently model human cerebral cavernous malformation 2.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 269 mentions in open access literature.

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

Yanagisawa H, et al. (2026) Endothelial C-type natriuretic peptide/guanylyl cyclase-B signaling prevents pulmonary arterial hypertension. *Nature communications*, 17(1).

King A, et al. (2026) Endothelial Adgrl2 Expression and Alternative Splicing Controls the Cerebrovasculature. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 46(16).

Yang X, et al. (2026) Targeting TPO/MPL Signaling to Mitigate JAK2V617F-driven Cardiac Microvascular Disease. *bioRxiv : the preprint server for biology*.

Yang X, et al. (2026) Knockin expression of human ADAMTS5 impairs cardiovascular development and aggravates cerebral cavernous malformations in mice. *Disease models & mechanisms*, 19(5).

Li Z, et al. (2026) Decoding the spatiotemporal development of the blood-brain barrier in human cortex. *Cell stem cell*, 33(5), 853.

Deng X, et al. (2025) Mechanistic insights into the role of EGLN3 in pulmonary vascular remodeling and endothelial dysfunction. *Respiratory research*, 26(1), 61.

Dupuis LE, et al. (2025) ADAMTS5 Orchestrates Cell Lineage Specific Patterning and Extracellular Matrix Organization During Semilunar Valve Development. *Journal of cardiovascular development and disease*, 12(9).

Inoue Y, et al. (2025) Finerenone ameliorates diabetic kidney disease exacerbated by deletion of natriuretic peptide/guanylyl cyclase-A signaling and dietary high-protein load. *Scientific reports*, 15(1), 41378.

Li L, et al. (2025) EMP1 safeguards hematopoietic stem cells by suppressing sphingolipid metabolism and alleviating endoplasmic reticulum stress. *Nature communications*, 16(1), 6247.

Su E, et al. (2025) Endothelial GSDMD underlies LPS-induced systemic vascular injury and lethality. *JCI insight*, 10(3).

Liu J, et al. (2025) GP73 reinforces cytotoxic T-cell function by regulating HIF-1 α and increasing antitumor efficacy. *Journal for immunotherapy of cancer*, 13(1).

Baikova IP, et al. (2025) High Blood Levels of Cyclophilin A Increased Susceptibility to Ulcerative Colitis in a Transgenic Mouse Model. *International journal of molecular sciences*, 26(24).

Liu S, et al. (2025) Endothelial MerTK impairment accelerates the development of atherosclerosis. *Redox biology*, 87, 103861.

Li ZY, et al. (2025) Metrnl protects intestinal barrier function by regulating tight junctions via the IKK α /I κ B α /NF κ B/MLCK/MLC signaling pathway. *Cell death discovery*, 11(1), 155.

Zhao T, et al. (2025) GPAT4 sustains endoplasmic reticulum homeostasis in endocardial cells and safeguards heart development. *Nature communications*, 16(1), 3345.

Lupu IE, et al. (2025) Direct specification of lymphatic endothelium from mesenchymal progenitors. *Nature cardiovascular research*, 4(1), 45.

Liu S, et al. (2025) Big data analytics and scRNA-seq in human aortic aneurysms and dissections: role of endothelial MerTK. *Theranostics*, 15(1), 202.

Morikawa T, et al. (2025) Decreased non-neurogenic acetylcholine in bone marrow triggers age-related defective stem/progenitor cell homing. *Nature communications*, 16(1), 5475.

Wang G, et al. (2025) In toto imaging shows intravascular proliferation promotes transmigration of daughter cells during brain invasion of *Cryptococcus neoformans*. *Cell reports*, 44(12), 116658.

Graves SI, et al. (2025) p16-expressing microglia and endothelial cells promote tauopathy and neurovascular abnormalities in PS19 mice. *Neuron*, 113(14), 2251.