

Resource Summary Report

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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: 20260725T044423+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 259 mentions in open access literature.

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

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

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).

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

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.

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

Li ZY, et al. (2025) Metrn1 protects intestinal barrier function by regulating tight junctions via the IKK β /I κ B/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.

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).

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

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).

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.

McKinsey GL, et al. (2025) Radial glia integrin α VB8 regulates cell autonomous microglial TGF β 1 signaling that is necessary for microglial identity. *Nature communications*, 16(1), 2840.

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

Velazquez-Rivera E, et al. (2025) Specific targeting of brain endothelial cells using enhancer AAV vectors. *Neuron*, 113(10), 1562.

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.

Tian M, et al. (2025) Deconstructing the intercellular interactome in vascular dementia with focal ischemia for therapeutic applications. *Cell*.

Tan J, et al. (2025) Placode and neural crest origins of congenital deafness in mouse models of Waardenburg-Shah syndrome. *iScience*, 28(1), 111680.

Pv A, et al. (2024) Glycolytic state of aortic endothelium favors hematopoietic transition during the emergence of definitive hematopoiesis. *Science advances*, 10(7), eadh8478.