

Resource Summary Report

Generated by [NIF](#) on Sep 2, 2026

STOCK Tg(TIE2GFP)287Sato/J

RRID:IMSR_JAX:003658

Type: Organism

Proper Citation

RRID:IMSR_JAX:003658

Organism Information

URL: <https://www.jax.org/strain/003658>

Proper Citation: RRID:IMSR_JAX:003658

Description: Mus musculus with name STOCK Tg(TIE2GFP)287Sato/J from IMSR.

Species: Mus musculus

Synonyms: FVB/N-TgN(TIE2GFP)287Sato. STOCK TgN(TIE2GFP)287Sato/J

Notes: gene symbol note: [transgene insertion 287; Thomas N Sato]TEK receptor tyrosine kinase; mutant stock: [Tg(TIE2GFP)287Sato]Tek

Affected Gene: [transgene insertion 287; Thomas N Sato]TEK receptor tyrosine kinase

Genomic Alteration: transgene insertion 287; Thomas N Sato

Catalog Number: JAX:003658

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: STOCK Tg(TIE2GFP)287Sato/J

Record Creation Time: 20250513T053640+0000

Record Last Update: 20260829T044932+0000

Ratings and Alerts

No rating or validation information has been found for STOCK Tg(TIE2GFP)287Sato/J.

No alerts have been found for STOCK Tg(TIE2GFP)287Sato/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 49 mentions in open access literature.

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

Feng C, et al. (2026) Microglia sense fungal infections through capsular components from capillary-bound *Cryptococcus neoformans* via endothelial nucleotide signaling. *PLoS biology*, 24(2), e3003642.

Gunasekara RW, et al. (2026) Programming Brain Cell-Type-Selective Delivery In Vivo with Transporter-Guided Therapeutics. *bioRxiv : the preprint server for biology*.

Carpenter RS, et al. (2026) Aging disrupts sympathetic innervation of the thymus. *Cell reports*, 45(4), 117126.

Lind BL, et al. (2025) In vivo two-photon microscopy for studies of neurovascular coupling in rodents: a beginner's guide. *Neurophotonics*, 12(Suppl 2), S22808.

Zhukov O, et al. (2023) Preserved blood-brain barrier and neurovascular coupling in female 5xFAD model of Alzheimer's disease. *Frontiers in aging neuroscience*, 15, 1089005.

Zhang H, et al. (2023) Erythrocyte-brain endothelial interactions induce microglial responses and cerebral microhemorrhages in vivo. *Journal of neuroinflammation*, 20(1), 265.

Lin X, et al. (2022) Longitudinal dynamics of microvascular recovery after acquired cortical injury. *Acta neuropathologica communications*, 10(1), 59.

Yang L, et al. (2022) Cognitive Impairments and blood-brain Barrier Damage in a Mouse Model of Chronic Cerebral Hypoperfusion. *Neurochemical research*, 47(12), 3817.

Francis AT, et al. (2022) In vivo simultaneous nonlinear absorption Raman and fluorescence (SNARF) imaging of mouse brain cortical structures. *Communications biology*, 5(1), 222.

Dzamukova M, et al. (2022) Mechanical forces couple bone matrix mineralization with inhibition of angiogenesis to limit adolescent bone growth. *Nature communications*, 13(1), 3059.

Namiki J, et al. (2022) Chitinase-like protein 3: A novel niche factor for mouse neural stem cells. *Stem cell reports*, 17(12), 2704.

Milara J, et al. (2022) IL-11 system participates in pulmonary artery remodeling and hypertension in pulmonary fibrosis. *Respiratory research*, 23(1), 313.

Luck R, et al. (2021) The angiopoietin-Tie2 pathway regulates Purkinje cell dendritic morphogenesis in a cell-autonomous manner. *Cell reports*, 36(7), 109522.

Kucharz K, et al. (2021) Post-capillary venules are the key locus for transcytosis-mediated brain delivery of therapeutic nanoparticles. *Nature communications*, 12(1), 4121.

Coelho-Santos V, et al. (2021) Imaging the construction of capillary networks in the neonatal mouse brain. *Proceedings of the National Academy of Sciences of the United States of America*, 118(26).

Liu YB, et al. (2021) Directed evolution of AAV accounting for long-term and enhanced transduction of cardiovascular endothelial cells in vivo. *Molecular therapy. Methods & clinical development*, 22, 148.

Godavarthy PS, et al. (2020) The vascular bone marrow niche influences outcome in chronic myeloid leukemia via the E-selectin - SCL/TAL1 - CD44 axis. *Haematologica*, 105(1), 136.

Bar O, et al. (2020) Angiomodulin (IGFBP7) is a cerebral specific angiocrine factor, but is probably not a blood-brain barrier inducer. *Fluids and barriers of the CNS*, 17(1), 27.

Sabbagh MF, et al. (2020) A genome-wide view of the de-differentiation of central nervous system endothelial cells in culture. *eLife*, 9.

Jiang R, et al. (2019) SPIO nanoparticle-labeled bone marrow mesenchymal stem cells inhibit pulmonary EndoMT induced by SiO₂. *Experimental cell research*, 383(1), 111492.