

Resource Summary Report

Generated by T1D on Sep 19, 2026

B6.Cg-Tg(GFAP-cre/ERT2)505Fmv/J

RRID:IMSR_JAX:012849

Type: Organism

Proper Citation

RRID:IMSR_JAX:012849

Organism Information

URL: <https://www.jax.org/strain/012849>

Proper Citation: RRID:IMSR_JAX:012849

Description: Mus musculus with name B6.Cg-Tg(GFAP-cre/ERT2)505Fmv/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: transgene insertion 505; Flora M Vaccarino[glial fibrillary acidic protein]; mutant strain|congenic strain: Tg(GFAP-cre/ERT2)505Fmv|GFAP|

Affected Gene: transgene insertion 505; Flora M Vaccarino[glial fibrillary acidic protein]

Genomic Alteration: transgene insertion 505; Flora M Vaccarino

Catalog Number: JAX:012849

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Tg(GFAP-cre/ERT2)505Fmv/J

Record Creation Time: 20250513T053722+0000

Record Last Update: 20260919T054910+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Tg(GFAP-cre/ERT2)505Fmv/J.

No alerts have been found for B6.Cg-Tg(GFAP-cre/ERT2)505Fmv/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 40 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#).

Wang X, et al. (2026) Astrocytic glucose metabolism regulates the survival of newborn hippocampal neurons in the adult brain. *Neuron*.

Wagner VA, et al. (2025) Astrocytic GABA controls fidelity of temporal cortical processing in Fragile X Syndrome. *Neurobiology of disease*, 219, 107233.

Capuk O, et al. (2025) Selective Deletion of NBCE1 in Reactive Astrocytes Attenuates Ischemic Stroke Brain Damage. *Glia*.

Taib B, et al. (2025) Insulin acts on astrocytes to shift their substrate preference to fatty acids. *iScience*, 28(4), 111642.

Sutley-Koury SN, et al. (2024) Astrocytic Ephrin-B1 Regulates Oligodendrocyte Development and Myelination. *ASN neuro*, 16(1), 2401753.

Raymant M, et al. (2024) Macrophage-fibroblast JAK/STAT dependent crosstalk promotes liver metastatic outgrowth in pancreatic cancer. *Nature communications*, 15(1), 3593.

Sutley-Koury SN, et al. (2024) EphB2 Signaling Is Implicated in Astrocyte-Mediated Parvalbumin Inhibitory Synapse Development. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 44(45).

Hull VL, et al. (2024) Astroglial conditional Slc13a3 knockout is therapeutic in murine Canavan leukodystrophy. *Annals of clinical and translational neurology*, 11(4), 1059.

Aydin B, et al. (2024) Gut bacteria-derived succinate induces enteric nervous system regeneration. *bioRxiv : the preprint server for biology*.

Jia C, et al. (2024) Astrocyte focal adhesion kinase reduces passive stress coping by inhibiting ciliary neurotrophic factor only in female mice. *Neurobiology of stress*, 30, 100621.

Dai W, et al. (2024) Nucleoporin Seh1 controls murine neocortical development via transcriptional repression of p21 in neural stem cells. *Developmental cell*, 59(4), 482.

Peng W, et al. (2023) Adenosine-independent regulation of the sleep-wake cycle by astrocyte activity. *Cell discovery*, 9(1), 16.

Yang JL, et al. (2023) Transient neurogenesis in ischemic cortex from Sox2+ astrocytes. *Neural regeneration research*, 18(7), 1521.

Palko SI, et al. (2023) Peptidyl arginine deiminase 4 deficiency protects against subretinal fibrosis by inhibiting Müller glial hypercitrullination. *Journal of neuroscience research*, 101(4), 464.

Kalinin S, et al. (2023) Astrocyte lipocalin-2 modestly effects disease severity in a mouse model of multiple sclerosis while reducing mature oligodendrocyte protein and mRNA expression. *Neuroscience letters*, 815, 137497.

Ingiosi AM, et al. (2022) Noradrenergic Signaling in Astrocytes Influences Mammalian Sleep Homeostasis. *Clocks & sleep*, 4(3), 332.

Favaloro F, et al. (2022) miR-17-92 exerts stage-specific effects in adult V-SVZ neural stem cell lineages. *Cell reports*, 41(10), 111773.

Tsymbalyuk O, et al. (2021) SUR1, newly expressed in astrocytes, mediates neuropathic pain in a mouse model of peripheral nerve injury. *Molecular pain*, 17, 17448069211006603.

Mu W, et al. (2021) Hypothalamic Rax+ tanycytes contribute to tissue repair and tumorigenesis upon oncogene activation in mice. *Nature communications*, 12(1), 2288.

Mastorakos P, et al. (2021) Temporally distinct myeloid cell responses mediate damage and repair after cerebrovascular injury. *Nature neuroscience*, 24(2), 245.