

Resource Summary Report

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B6.Cg-Tg(Gfap-cre)73.12Mvs/J

RRID:IMSR_JAX:012886

Type: Organism

Proper Citation

RRID:IMSR_JAX:012886

Organism Information

URL: <https://www.jax.org/strain/012886>

Proper Citation: RRID:IMSR_JAX:012886

Description: Mus musculus with name B6.Cg-Tg(Gfap-cre)73.12Mvs/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: |glial fibrillary acidic protein|transgene insertion 73.12; Michael V Sofroniew; mutant strain|congenic strain: |Gfap|Tg(Gfap-cre)73.12Mvs

Affected Gene: |glial fibrillary acidic protein|transgene insertion 73.12; Michael V Sofroniew

Genomic Alteration: transgene insertion 73.12; Michael V Sofroniew

Catalog Number: JAX:012886

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Tg(Gfap-cre)73.12Mvs/J

Record Creation Time: 20250513T053723+0000

Record Last Update: 20260725T044432+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Tg(Gfap-cre)73.12Mvs/J.

No alerts have been found for B6.Cg-Tg(Gfap-cre)73.12Mvs/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 [RRID](#).

Ware K, et al. (2026) Cell type-dependent role of transforming growth factor- β signaling on postnatal neural stem cell proliferation and migration. *Neural regeneration research*, 21(3), 1151.

Mi X, et al. (2025) Fast, accurate, and versatile data analysis platform for the quantification of molecular spatiotemporal signals. *Cell*, 188(10), 2794.

Li ZY, et al. (2025) Impaired Synaptic Plasticity Mediated by Decreased GLUT1 in Hippocampal Astrocytes is Involved in Postoperative Cognitive Dysfunction in Elderly Mice. *Molecular neurobiology*, 62(10), 13678.

Gaudel F, et al. (2025) Astrocyte-induced firing in primary afferent axons. *iScience*, 28(3), 112006.

Bosworth AP, et al. (2025) Astrocyte glypican 5 regulates synapse maturation and stabilization. *Cell reports*, 44(3), 115374.

Deng J, et al. (2024) Suppression of astrocyte BMP signaling improves fragile X syndrome molecular signatures and functional deficits. *bioRxiv : the preprint server for biology*.

Tiwari N, et al. (2024) Plp1-expressing perineuronal DRG cells facilitate colonic and somatic chronic mechanical pain involving Piezo2 upregulation in DRG neurons. *Cell reports*, 43(5), 114230.

Profaci CP, et al. (2024) Microglia are not necessary for maintenance of blood-brain barrier properties in health, but PLX5622 alters brain endothelial cholesterol metabolism. *Neuron*, 112(17), 2910.

Mi X, et al. (2024) Fast, Accurate, and Versatile Data Analysis Platform for the Quantification of Molecular Spatiotemporal Signals. *bioRxiv : the preprint server for biology*.

Del Puerto A, et al. (2023) Kidins220 sets the threshold for survival of neural stem cells and progenitors to sustain adult neurogenesis. *Cell death & disease*, 14(8), 500.

Wei H, et al. (2023) Glial progenitor heterogeneity and key regulators revealed by single-cell RNA sequencing provide insight to regeneration in spinal cord injury. *Cell reports*,

42(5), 112486.

Cullen PF, et al. (2023) Rapid isolation of intact retinal astrocytes: a novel approach. *Acta neuropathologica communications*, 11(1), 154.

Shekhtmeyster P, et al. (2023) Multiplex translaminar imaging in the spinal cord of behaving mice. *Nature communications*, 14(1), 1427.

Li K, et al. (2023) The astrocytic Na⁺ -HCO₃⁻ cotransporter, NBCe1, is dispensable for respiratory chemosensitivity. *The Journal of physiology*, 601(16), 3667.

Pajarillo E, et al. (2023) Astrocytic Yin Yang 1 is critical for murine brain development and protection against apoptosis, oxidative stress, and inflammation. *Glia*, 71(2), 450.

Mazumder AG, et al. (2022) Astrocyte heterogeneity within white matter tracts and a unique subpopulation of optic nerve head astrocytes. *iScience*, 25(12), 105568.

Syme TE, et al. (2022) Strawberry notch homolog 2 regulates the response to interleukin-6 in the central nervous system. *Journal of neuroinflammation*, 19(1), 126.

Schuele LL, et al. (2022) Regulation of adult neurogenesis by the endocannabinoid-producing enzyme diacylglycerol lipase alpha (DAGLa). *Scientific reports*, 12(1), 633.

He D, et al. (2022) Disruption of the IL-33-ST2-AKT signaling axis impairs neurodevelopment by inhibiting microglial metabolic adaptation and phagocytic function. *Immunity*, 55(1), 159.

Zheng Q, et al. (2022) Synchronized cluster firing, a distinct form of sensory neuron activation, drives spontaneous pain. *Neuron*, 110(2), 209.