

Resource Summary Report

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B6.Cg-Tg(Cspg4-cre/Esr1*)BAkik/J

RRID:IMSR_JAX:008538

Type: Organism

Proper Citation

RRID:IMSR_JAX:008538

Organism Information

URL: <https://www.jax.org/strain/008538>

Proper Citation: RRID:IMSR_JAX:008538

Description: Mus musculus with name B6.Cg-Tg(Cspg4-cre/Esr1*)BAkik/J from IMSR.

Species: Mus musculus

Synonyms: NG2-CreER BAC transgenic mice (line B). NG2creERBAC transgenic mice

Notes: gene symbol note: chondroitin sulfate proteoglycan 4|Cre recombinase and estrogen receptor 1 fusion gene|transgene insertion B; Akiko Nishiyama; mutant strain|congenic strain: Cspg4|cre/Esr1|Tg(Cspg4-cre/Esr1*)BAkik

Affected Gene: chondroitin sulfate proteoglycan 4|Cre recombinase and estrogen receptor 1 fusion gene|transgene insertion B; Akiko Nishiyama

Genomic Alteration: transgene insertion B; Akiko Nishiyama

Catalog Number: JAX:008538

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Tg(Cspg4-cre/Esr1*)BAkik/J

Record Creation Time: 20250513T053709+0000

Record Last Update: 20260905T044453+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Tg(Cspg4-cre/Esr1*)BAKik/J.

No alerts have been found for B6.Cg-Tg(Cspg4-cre/Esr1*)BAKik/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 51 mentions in open access literature.

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

Xu Z, et al. (2026) Unbiased niche labeling maps immune-excluded niche in bone metastasis. *Cell*, 189(11), 3287.

Ewing-Crystal NA, et al. (2025) Dynamic fibroblast-immune interactions shape recovery after brain injury. *Nature*, 646(8086), 934.

Sun W, et al. (2025) In vivo programming of adult pericytes aids axon regeneration by providing cellular bridges for SCI repair. *Molecular therapy : the journal of the American Society of Gene Therapy*, 33(8), 3968.

Chen SW, et al. (2025) ECM29/proteasome-mediated self-antigen generation by CNS-resident neuroglia promotes regulatory T??cell activation. *Cell reports*, 44(1), 115161.

Liu MC, et al. (2025) Choline transporters are required for oligodendrocyte differentiation and myelin sheath formation in mouse postnatal brain. *Cell reports*, 44(7), 115852.

Ries C, et al. (2025) Neuropeptide CRH prevents premature differentiation of OPCs following CNS injury and in early postnatal development. *Cell reports*, 44(11), 116474.

Kahng JA, et al. (2025) High-confidence and high-throughput quantification of synapse engulfment by oligodendrocyte precursor cells. *Nature protocols*, 20(2), 407.

Eltanahy AM, et al. (2024) Light-sensitive Ca²⁺ signaling in the mammalian choroid. *Proceedings of the National Academy of Sciences of the United States of America*, 121(46), e2418429121.

Zhang M, et al. (2024) ITPR2 Mediated Calcium Homeostasis in Oligodendrocytes is Essential for Myelination and Involved in Depressive-Like Behavior in Adolescent Mice. *Advanced science (Weinheim, Baden-Wurtemberg, Germany)*, 11(20), e2306498.

Ghorbani S, et al. (2024) Fibulin-2 is an extracellular matrix inhibitor of oligodendrocytes relevant to multiple sclerosis. *The Journal of clinical investigation*, 134(13).

Xue X, et al. (2024) Heterogeneous fibroblasts contribute to fibrotic scar formation after spinal cord injury in mice and monkeys. *Nature communications*, 15(1), 6321.

Ren SY, et al. (2024) Growth hormone promotes myelin repair after chronic hypoxia via triggering pericyte-dependent angiogenesis. *Neuron*, 112(13), 2177.

Liu X, et al. (2024) Small-molecule-induced epigenetic rejuvenation promotes SREBP condensation and overcomes barriers to CNS myelin regeneration. *Cell*, 187(10), 2465.

Ding X, et al. (2024) Age-dependent regulation of axoglia interactions and behavior by oligodendrocyte AnkyrinG. *bioRxiv : the preprint server for biology*.

Loan A, et al. (2024) Single-cell profiling of brain pericyte heterogeneity following ischemic stroke unveils distinct pericyte subtype-targeted neural reprogramming potential and its underlying mechanisms. *Theranostics*, 14(16), 6110.

Ding X, et al. (2024) Age-dependent regulation of axoglia interactions and behavior by oligodendrocyte AnkyrinG. *Nature communications*, 15(1), 10865.

Tatsukawa T, et al. (2023) NG2-positive pericytes regulate homeostatic maintenance of slow-type skeletal muscle with rapid myonuclear turnover. *Stem cell research & therapy*, 14(1), 205.

Moyon S, et al. (2023) Neural stem cells and oligodendrocyte progenitor cells compete for remyelination in the corpus callosum. *Frontiers in cellular neuroscience*, 17, 1114781.

Su Y, et al. (2023) Astrocyte endfoot formation controls the termination of oligodendrocyte precursor cell perivascular migration during development. *Neuron*, 111(2), 190.

Zhang W, et al. (2023) Bone Metastasis Initiation Is Coupled with Bone Remodeling through Osteogenic Differentiation of NG2+ Cells. *Cancer discovery*, 13(2), 474.