# Resource Summary Report

Generated by dkNET on Sep 21, 2026

## 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

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

**Affected Gene:** Cre recombinase and estrogen receptor 1 fusion gene|chondroitin sulfate proteoglycan 4|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:** 20260919T054858+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 dkNET .


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-Wurttemberg, 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 axoglial 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 axoglial 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.

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

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

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.