

Resource Summary Report

Generated by [NIF](#) on Aug 19, 2026

B6.Cg-Tg(Plp1-cre/ERT)3Pop/J

RRID:IMSR_JAX:005975

Type: Organism

Proper Citation

RRID:IMSR_JAX:005975

Organism Information

URL: <https://www.jax.org/strain/005975>

Proper Citation: RRID:IMSR_JAX:005975

Description: Mus musculus with name B6.Cg-Tg(Plp1-cre/ERT)3Pop/J from IMSR.

Species: Mus musculus

Synonyms: B6.Cg-Tg(Plp1-cre/ESR1)3Pop/J

Notes: gene symbol note: transgene insertion 3; Brian Popko|estrogen receptor 1||proteolipid protein (myelin) 1; mutant strain|congenic strain: Tg(Plp1-cre/ERT)3Pop|ESR1||Plp1

Affected Gene: transgene insertion 3; Brian Popko|estrogen receptor 1||proteolipid protein (myelin) 1

Genomic Alteration: transgene insertion 3; Brian Popko

Catalog Number: JAX:005975

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Tg(Plp1-cre/ERT)3Pop/J

Record Creation Time: 20250513T053653+0000

Record Last Update: 20260815T050602+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Tg(Plp1-cre/ERT)3Pop/J.

No alerts have been found for B6.Cg-Tg(Plp1-cre/ERT)3Pop/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 64 mentions in open access literature.

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

Ezquerro-Herce S, et al. (2026) Cannabinoid CB1 receptors drive oligodendrocyte maturation during myelin regeneration. Cell communication and signaling : CCS, 24(1).

Wang Y, et al. (2026) Injury-transduced SerpinOLs modulate neuroinflammation and glial activation in the diseased and non-diseased CNS. bioRxiv : the preprint server for biology.

Muppirala AN, et al. (2026) Tachykinin signaling defines distinct populations of glia in the enteric nervous system. Neuron.

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.

Chen H, et al. (2025) Impaired macroautophagy in oligodendrocyte precursor cells suppresses neuronal plasticity via a senescence-associated signaling. Science advances, 11(39), eadq7665.

Cho WH, et al. (2025) PRC2 Restricts Malignant Peripheral Nerve Sheath Tumorigenesis in a Genetically Engineered Mouse Model of MPNST. bioRxiv : the preprint server for biology.

Collins HY, et al. (2025) FBXW7 regulates MYRF levels to control myelin capacity and homeostasis in the adult central nervous system. Nature communications, 16(1), 7822.

Prochera A, et al. (2025) Enteric glia regulate Paneth cell secretion and intestinal microbial ecology. eLife, 13.

Nakamura Y, et al. (2025) Adult leptomeningeal vestigial neural crest-derived multipotent cells promote vascular repair after stroke. Cell reports, 45(1), 116747.

Mather ML, et al. (2025) Myelin Lipid Composition in the Central Nervous System Is Regionally Distinct and Requires Mechanistic Target of Rapamycin Signaling. Glia, 73(9), 1841.

Maga??a I, et al. (2025) A Novel Cell-Type Specific Circadian Reporter Mouse Reveals Self-Sustained Food Entrainable Nature in Enteric Neurons. *bioRxiv : the preprint server for biology*.

Ma Q, et al. (2025) Oligodendrocytes drive neuroinflammation and neurodegeneration in Parkinson's disease via the prosaposin-GPR37-IL-6 axis. *Cell reports*, 44(2), 115266.

Nassini R, et al. (2025) Targeting prostaglandin E2 receptor 2 in Schwann cells inhibits inflammatory pain but not inflammation. *Nature communications*, 16(1), 8262.

Rajani RM, et al. (2024) Selective suppression of oligodendrocyte-derived amyloid beta rescues neuronal dysfunction in Alzheimer's disease. *PLoS biology*, 22(7), e3002727.

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

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

Bellantoni E, et al. (2024) Schwann cell transient receptor potential ankyrin 1 (TRPA1) ortholog in zebrafish larvae mediates chemotherapy-induced peripheral neuropathy. *British journal of pharmacology*, 181(23), 4859.

Nguyen PT, et al. (2024) Low intensity repetitive transcranial magnetic stimulation enhances remyelination by newborn and surviving oligodendrocytes in the cuprizone model of toxic demyelination. *Cellular and molecular life sciences : CMLS*, 81(1), 346.

Yoo K, et al. (2024) Muscle-resident mesenchymal progenitors sense and repair peripheral nerve injury via the GDNF-BDNF axis. *eLife*, 13.

Huang Y, et al. (2024) Schwann cell promotes macrophage recruitment through IL-17B/IL-17RB pathway in injured peripheral nerves. *Cell reports*, 43(2), 113753.