

Resource Summary Report

Generated by [NIF](#) on Aug 15, 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.

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*.

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.

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-expressing 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.

Elbaz B, et al. (2024) The bone transcription factor Osterix controls extracellular matrix- and node of Ranvier-related gene expression in oligodendrocytes. *Neuron*, 112(2), 247.