

Resource Summary Report

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B6.129-Tg(Pcp2-cre)2Mpin/J

RRID:IMSR_JAX:004146

Type: Organism

Proper Citation

RRID:IMSR_JAX:004146

Organism Information

URL: <https://www.jax.org/strain/004146>

Proper Citation: RRID:IMSR_JAX:004146

Description: Mus musculus with name B6.129-Tg(Pcp2-cre)2Mpin/J from IMSR.

Species: Mus musculus

Synonyms: B6.129-Tg(Pcp2-Cre)2Mpin

Notes: gene symbol note: |transgene insertion 2; Max-Planck-Institute of Neurobiology|Purkinje cell protein 2 (L7); mutant strain|congenic strain: |Tg(Pcp2-cre)2Mpin|Pcp2

Affected Gene: |transgene insertion 2; Max-Planck-Institute of Neurobiology|Purkinje cell protein 2 (L7)

Genomic Alteration: transgene insertion 2; Max-Planck-Institute of Neurobiology

Catalog Number: JAX:004146

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129-Tg(Pcp2-cre)2Mpin/J

Record Creation Time: 20250513T053643+0000

Record Last Update: 20250517T092515+0000

Ratings and Alerts

No rating or validation information has been found for B6.129-Tg(Pcp2-cre)2Mpin/J.

No alerts have been found for B6.129-Tg(Pcp2-cre)2Mpin/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 85 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Garcia-Garcia MG, et al. (2024) A cerebellar granule cell-climbing fiber computation to learn to track long time intervals. *Neuron*, 112(16), 2749.

Zaman T, et al. (2024) Kit Ligand and Kit receptor tyrosine kinase sustain synaptic inhibition of Purkinje cells. *eLife*, 12.

Brown ST, et al. (2024) Simple spike patterns and synaptic mechanisms encoding sensory and motor signals in Purkinje cells and the cerebellar nuclei. *Neuron*.

Cealie MY, et al. (2024) Developmental Ethanol Exposure Impacts Purkinje Cells but Not Microglia in the Young Adult Cerebellum. *Cells*, 13(5).

Kapur M, et al. (2024) Cell-type-specific expression of tRNAs in the brain regulates cellular homeostasis. *Neuron*.

Bartelt LC, et al. (2024) Antibody-assisted selective isolation of Purkinje cell nuclei from mouse cerebellar tissue. *Cell reports methods*, 4(7), 100816.

Silva NT, et al. (2024) Climbing fibers provide essential instructive signals for associative learning. *Nature neuroscience*, 27(5), 940.

Jahncke JN, et al. (2024) Tools for Cre-Mediated Conditional Deletion of Floxed Alleles from Developing Cerebellar Purkinje Cells. *eNeuro*, 11(6).

Takegawa W, et al. (2024) Kainate receptors regulate synaptic integrity and plasticity by forming a complex with synaptic organizers in the cerebellum. *Cell reports*, 43(7), 114427.

Li C, et al. (2023) Purkinje cell dopaminergic inputs to astrocytes regulate cerebellar-dependent behavior. *Nature communications*, 14(1), 1613.

Kim S, et al. (2023) Disruptive lysosomal-metabolic signaling and neurodevelopmental deficits that precede Purkinje cell loss in a mouse model of Niemann-Pick Type-C disease. *Scientific reports*, 13(1), 5665.

Surdin T, et al. (2023) Optogenetic activation of mGluR1 signaling in the cerebellum induces synaptic plasticity. *iScience*, 26(1), 105828.

Carzoli KL, et al. (2023) Cerebellar interneurons control fear memory consolidation via learning-induced HCN plasticity. *Cell reports*, 42(9), 113057.

Li SJ, et al. (2023) Meshed neuronal mitochondrial networks empowered by AI-powered classifiers and immersive VR reconstruction. *Frontiers in neuroscience*, 17, 1059965.

Cealie MY, et al. (2023) Developmental ethanol exposure has minimal impact on cerebellar microglial dynamics, morphology, and interactions with Purkinje cells during adolescence. *Frontiers in neuroscience*, 17, 1176581.

de Mello NP, et al. (2023) Ex vivo immunocapture and functional characterization of cell-type-specific mitochondria using MitoTag mice. *Nature protocols*, 18(7), 2181.

Pilotto F, et al. (2023) Early molecular layer interneuron hyperactivity triggers Purkinje neuron degeneration in SCA1. *Neuron*, 111(16), 2523.

Todd D, et al. (2022) Purkinje cell-specific deletion of CREB worsens alcohol-induced cerebellar neuronal losses and motor deficits. *Alcohol (Fayetteville, N.Y.)*, 101, 27.

Liu Z, et al. (2022) Deletion of Calsyntenin-3, an atypical cadherin, suppresses inhibitory synapses but increases excitatory parallel-fiber synapses in cerebellum. *eLife*, 11.

Baek SJ, et al. (2022) VTA-projecting cerebellar neurons mediate stress-dependent depression-like behaviors. *eLife*, 11.