

Resource Summary Report

Generated by [kravitz2](#) on Aug 9, 2026

B6.Cg-Pvalb^{tm4.1(flpo)}Hze/J

RRID:IMSR_JAX:022730

Type: Organism

Proper Citation

RRID:IMSR_JAX:022730

Organism Information

URL: <https://www.jax.org/strain/022730>

Proper Citation: RRID:IMSR_JAX:022730

Description: Mus musculus with name B6.Cg-Pvalb^{tm4.1(flpo)}Hze/J from IMSR.

Species: Mus musculus

Synonyms: B6.Cg-Pvalb/J

Notes: gene symbol note: parvalbumin|; mutant strain|congenic strain: Pvalb|

Affected Gene: parvalbumin|

Genomic Alteration: targeted mutation 4.1; Hongkui Zeng

Catalog Number: JAX:022730

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Pvalb^{tm4.1(flpo)}Hze/J

Record Creation Time: 20250513T053746+0000

Record Last Update: 20260808T050949+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Pvalb^{tm4.1(flpo)}Hze/J.

No alerts have been found for B6.Cg-Pvalb^{tm4.1(flpo)}Hze/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 27 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Phensy AJ, et al. (2026) Prefrontal gamma oscillations engage dynamic cell-type-specific configurations to support flexible behavior. *Neuron*.

Golbabaei A, et al. (2026) PV-dependent reorganization of prelimbic cortex sub-engrams during systems consolidation. *Neuron*, 114(1), 142.

Lee D, et al. (2026) Juvenile-to-adult refinement of thalamic reticular circuits via LRRTM3 enables high-resolution sensory encoding. *Neuron*, 114(7), 1219.

Daly KM, et al. (2026) M4-ipRGCs regulate contrast sensitivity in vision. *Cell reports*, 45(7), 117662.

Locantore J, et al. (2025) Mixed representations of choice direction and outcome by GABA/glutamate cotransmitting neurons in the entopeduncular nucleus. *eLife*, 13.

Olson WP, et al. (2025) Muscle spindles provide flexible sensory feedback for movement sequences. *Cell reports*, 44(11), 116452.

Huang LW, et al. (2024) Synaptic interactions between stellate cells and parvalbumin interneurons in layer 2 of the medial entorhinal cortex are organized at the scale of grid cell clusters. *eLife*, 12.

Seignette K, et al. (2024) Experience shapes chandelier cell function and structure in the visual cortex. *eLife*, 12.

Gradwell MA, et al. (2024) Multimodal sensory control of motor performance by glycinergic interneurons of the mouse spinal cord deep dorsal horn. *Neuron*.

Huang S, et al. (2024) Neurogliaform Cells Exhibit Laminar-specific Responses in the Visual Cortex and Modulate Behavioral State-dependent Cortical Activity. *bioRxiv* : the preprint server for biology.

Huang S, et al. (2024) Neurogliaform Cells Exhibit Laminar-specific Responses in the Visual Cortex and Modulate Behavioral State-dependent Cortical Activity. *Research square*.

Zhou H, et al. (2023) A sleep-active basolocortical pathway crucial for generation and maintenance of chronic pain. *Nature neuroscience*, 26(3), 458.

Rupert DD, et al. (2023) Selective Deletion of Methyl CpG Binding Protein 2 from Parvalbumin Interneurons in the Auditory Cortex Delays the Onset of Maternal Retrieval in Mice. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 43(40), 6745.

Tsoi SY, et al. (2022) Telencephalic outputs from the medial entorhinal cortex are copied directly to the hippocampus. *eLife*, 11.

Wu YT, et al. (2022) Quantitative relationship between cerebrovascular network and neuronal cell types in mice. *Cell reports*, 39(12), 110978.

Cao B, et al. (2022) Spinal cord retinoic acid receptor signaling gates mechanical hypersensitivity in neuropathic pain. *Neuron*, 110(24), 4108.

Cui Q, et al. (2021) Dissociable Roles of Pallidal Neuron Subtypes in Regulating Motor Patterns. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 41(18), 4036.

Yao Z, et al. (2021) A taxonomy of transcriptomic cell types across the isocortex and hippocampal formation. *Cell*, 184(12), 3222.

Lehnert BP, et al. (2021) Mechanoreceptor synapses in the brainstem shape the central representation of touch. *Cell*, 184(22), 5608.

Asrican B, et al. (2020) Neuropeptides Modulate Local Astrocytes to Regulate Adult Hippocampal Neural Stem Cells. *Neuron*, 108(2), 349.