

Resource Summary Report

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C57BL/6-Tg(Pvalb-tdTomato)15Gfng/J

RRID:IMSR_JAX:027395

Type: Organism

Proper Citation

RRID:IMSR_JAX:027395

Organism Information

URL: <https://www.jax.org/strain/027395>

Proper Citation: RRID:IMSR_JAX:027395

Description: Mus musculus with name C57BL/6-Tg(Pvalb-tdTomato)15Gfng/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: transgene insertion 15; Guoping Feng||parvalbumin|transgene insertion 15; Guoping Feng||parvalbumin; coisogenic strain: Tg(Pvalb-tdTomato)15Gfng||Pvalb|Tg(Pvalb-tdTomato)15Gfng||Pvalb

Affected Gene: transgene insertion 15; Guoping Feng||parvalbumin|transgene insertion 15; Guoping Feng||parvalbumin

Genomic Alteration: transgene insertion 15; Guoping Feng

Catalog Number: JAX:027395

Database: International Mouse Resource Center IMSR, JAX

Database Abbreviation: IMSR

Availability: live

Alternate IDs: IMSR_JAX:27395

Organism Name: C57BL/6-Tg(Pvalb-tdTomato)15Gfng/J

Record Creation Time: 20230509T193323+0000

Record Last Update: 20250412T090715+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/6-Tg(Pvalb-tdTomato)15Gfng/J.

No alerts have been found for C57BL/6-Tg(Pvalb-tdTomato)15Gfng/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: International Mouse Resource Center IMSR, JAX

Usage and Citation Metrics

We found 20 mentions in open access literature.

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

Chuhma N, et al. (2024) Regional heterogeneity in the membrane properties of mouse striatal neurons. *Frontiers in cellular neuroscience*, 18, 1412897.

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

Assali A, et al. (2024) EphB1 controls long-range cortical axon guidance through a cell non-autonomous role in GABAergic cells. *Development (Cambridge, England)*, 151(5).

Caccavano AP, et al. (2024) Divergent opioid-mediated suppression of inhibition between hippocampus and neocortex across species and development. *bioRxiv : the preprint server for biology*.

Kondabolu K, et al. (2023) A Selective Projection from the Subthalamic Nucleus to Parvalbumin-Expressing Interneurons of the Striatum. *eNeuro*, 10(7).

Chuhma N, et al. (2023) The dopamine neuron synaptic map in the striatum. *Cell reports*, 42(3), 112204.

Rodrigues D, et al. (2022) Chronic stress causes striatal disinhibition mediated by SOM-interneurons in male mice. *Nature communications*, 13(1), 7355.

Mackenzie-Gray Scott CA, et al. (2022) Resilient Hippocampal Gamma Rhythmogenesis and Parvalbumin-Expressing Interneuron Function Before and After Plaque Burden in 5xFAD Alzheimer's Disease Model. *Frontiers in synaptic neuroscience*, 14, 857608.

Bueno-Fernandez C, et al. (2021) Long term effects of peripubertal stress on excitatory and inhibitory circuits in the prefrontal cortex of male and female mice. *Neurobiology of stress*, 14, 100322.

Paterno R, et al. (2021) Hippocampal gamma and sharp-wave ripple oscillations are altered in a Cntnap2 mouse model of autism spectrum disorder. *Cell reports*, 37(6), 109970.

Bakken TE, et al. (2021) Comparative cellular analysis of motor cortex in human, marmoset and mouse. *Nature*, 598(7879), 111.

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.

Bell KA, et al. (2021) The Entorhinal Cortical Alvear Pathway Differentially Excites Pyramidal Cells and Interneuron Subtypes in Hippocampal CA1. *Cerebral cortex (New York, N.Y. : 1991)*, 31(5), 2382.

Kalmbach BE, et al. (2021) Signature morpho-electric, transcriptomic, and dendritic properties of human layer 5 neocortical pyramidal neurons. *Neuron*, 109(18), 2914.

Enterría-Morales D, et al. (2020) Molecular targets for endogenous glial cell line-derived neurotrophic factor modulation in striatal parvalbumin interneurons. *Brain communications*, 2(2), fcaa105.

Bengtsson Gonzales C, et al. (2020) Intrinsic electrophysiological properties predict variability in morphology and connectivity among striatal Parvalbumin-expressing Pthlh-cells. *Scientific reports*, 10(1), 15680.

Zorrilla de San Martin J, et al. (2020) Alterations of specific cortical GABAergic circuits underlie abnormal network activity in a mouse model of Down syndrome. *eLife*, 9.

Abecassis ZA, et al. (2020) Npas1+-Nkx2.1+ Neurons Are an Integral Part of the Cortico-pallido-cortical Loop. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 40(4), 743.

Carceller H, et al. (2020) Perineuronal Nets Regulate the Inhibitory Perisomatic Input onto Parvalbumin Interneurons and ? Activity in the Prefrontal Cortex. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 40(26), 5008.

Kalmbach BE, et al. (2018) h-Channels Contribute to Divergent Intrinsic Membrane Properties of Supragranular Pyramidal Neurons in Human versus Mouse Cerebral Cortex. *Neuron*, 100(5), 1194.