

Resource Summary Report

Generated by [Kravitz](#) on Sep 18, 2026

B6.Cg-Dbh^{tm3.2(cre)}Pjen/J

RRID:IMSR_JAX:033951

Type: Organism

Proper Citation

RRID:IMSR_JAX:033951

Organism Information

URL: <https://www.jax.org/strain/033951>

Proper Citation: RRID:IMSR_JAX:033951

Description: Mus musculus with name B6.Cg-Dbh^{tm3.2(cre)}Pjen/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: dopamine beta hydroxylase; mutant strain|congenic strain: Dbh

Affected Gene: dopamine beta hydroxylase

Genomic Alteration: targeted mutation 3.2; Patricia Jensen

Catalog Number: JAX:033951

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Dbh^{tm3.2(cre)}Pjen/J

Record Creation Time: 20250513T053839+0000

Record Last Update: 20260912T060611+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Dbh^{tm3.2(cre)}Pjen/J.

No alerts have been found for B6.Cg-Dbh^{tm3.2(cre)}Pjen/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 20 mentions in open access literature.

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

Su Z, et al. (2026) Topographic structure and function of locus coeruleus norepinephrine neurons. bioRxiv : the preprint server for biology.

Wei J, et al. (2026) A central amygdala-locus coeruleus pathway mediating pain under chronic stress. Cell reports, 45(7), 117570.

Yu J, et al. (2026) 6-Hydroxydopamine promotes antitumor immunity through macrophage remodeling beyond sympathetic ablation. Neuron, 114(14), 2532.

Zhang P, et al. (2026) Sympathetic-epithelial crosstalk governs tissue-resident memory T cell immunosurveillance in the skin. Cell, 189(5), 1323.

Weiss E, et al. (2026) The Contribution of the Locus Ceruleus-Norepinephrine System to the Coupling between Pupil-Linked Arousal and Cortical State. The Journal of neuroscience : the official journal of the Society for Neuroscience, 46(3).

Liu YA, et al. (2025) Phase synchrony between prefrontal noradrenergic and cholinergic signals indexes inhibitory control. Nature communications, 16(1), 7260.

Chen H, et al. (2025) Intermittent fasting triggers interorgan communication to suppress hair follicle regeneration. Cell, 188(1), 157.

Wei Y, et al. (2025) Sympathetic functional units encoded by genetically defined postganglionic neurons. Neuron.

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

Ogg MC, et al. (2025) Locus coeruleus norepinephrine neurons facilitate orbitofrontal cortex remapping and behavioral flexibility. Cell reports, 44(12), 116687.

Kuo CC, et al. (2025) Circuit-selective pharmacological targeting of prefrontal cortex-projecting locus coeruleus neurons drives antinociception. Cell reports, 44(10), 116294.

Piantadosi SC, et al. (2025) An integrated microfluidic and fluorescence platform for probing in vivo neuropharmacology. Neuron, 113(10), 1491.

Pagiazitis JG, et al. (2025) Catecholaminergic dysfunction drives postural and locomotor deficits in a mouse model of spinal muscular atrophy. Cell reports, 44(1), 115147.

Weiss E, et al. (2025) The contribution of the locus coeruleus - norepinephrine system to the coupling between pupil-linked arousal and cortical state. bioRxiv : the preprint server for biology.

Wang T, et al. (2024) Conditional c-MYC activation in catecholaminergic cells drives distinct neuroendocrine tumors: neuroblastoma vs somatostatinoma. bioRxiv : the preprint server for biology.

Liu YA, et al. (2024) Phase synchrony between prefrontal noradrenergic and cholinergic signals indexes inhibitory control. bioRxiv : the preprint server for biology.

Weiss E, et al. (2024) Optogenetic Locus Coeruleus Stimulation Improves Pupil Size Tracking of Cortical State. Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Annual International Conference, 2024, 1.

Lou Q, et al. (2024) A noradrenergic pathway for the induction of pain by sleep loss. Current biology : CB, 34(12), 2644.

Collins L, et al. (2023) Cholinergic and noradrenergic axonal activity contains a behavioral-state signal that is coordinated across the dorsal cortex. eLife, 12.

Collins L, et al. (2021) Vagus nerve stimulation induces widespread cortical and behavioral activation. Current biology : CB, 31(10), 2088.