

Resource Summary Report

Generated by [RRID](#) on Jul 31, 2026

B6;129S-Pdyn^{tm1.1(cre)}Mjkr/LowIJ

RRID:IMSR_JAX:027958

Type: Organism

Proper Citation

RRID:IMSR_JAX:027958

Organism Information

URL: <https://www.jax.org/strain/027958>

Proper Citation: RRID:IMSR_JAX:027958

Description: Mus musculus with name B6;129S-Pdyn^{tm1.1(cre)}Mjkr/LowIJ from IMSR.

Species: Mus musculus

Notes: gene symbol note: |prodynorphin; mutant stock: |Pdyn

Affected Gene: |prodynorphin

Genomic Alteration: targeted mutation 1.1; Michael J Krashes

Catalog Number: JAX:027958

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6;129S-Pdyn^{tm1.1(cre)}Mjkr/LowIJ

Record Creation Time: 20250513T053802+0000

Record Last Update: 20260725T044508+0000

Ratings and Alerts

No rating or validation information has been found for B6;129S-Pdyn^{tm1.1(cre)}Mjkr/LowIJ.

No alerts have been found for B6;129S-Pdyn^{tm1.1(cre)}Mjkr/LowIJ.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 39 mentions in open access literature.

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

Su X, et al. (2025) Identification of VGLUT3-expressing LTMRs-recruited spinal circuits for itch inhibition. *Molecular brain*, 18(1), 74.

Bryant KG, et al. (2025) Acute alcohol in prefrontal cortex is characterized by enhanced inhibition that transitions to excitation. *iScience*, 28(7), 112920.

Noh MC, et al. (2025) A molecular and spinal circuit basis for the functional segregation of itch and pain. *bioRxiv : the preprint server for biology*.

Damonte VM, et al. (2025) Kappa opioid receptors control a stress-sensitive brain circuit and drive cocaine seeking. *bioRxiv : the preprint server for biology*.

Lebonville CL, et al. (2025) Alcohol drinking is associated with greater calcium activity in mouse central amygdala dynorphin-expressing neurons. *Progress in neuro-psychopharmacology & biological psychiatry*, 141, 111445.

Sun Q, et al. (2025) Dynorphin modulates reward-seeking actions through a pallido-amygdala cholinergic circuit. *Neuron*, 113(11), 1823.

Grady FS, et al. (2025) Parabrachial Foxp2-expressing neurons are necessary for sustaining core body temperature in the cold. *iScience*, 28(8), 112764.

Li T, et al. (2025) A pontine center in descending pain control. *Neuron*, 113(11), 1789.

Zan GY, et al. (2025) Astrocyte-mediated central amygdala microcircuit gates comorbid anxiety symptoms in chronic pain. *Neuron*, 113(23), 4037.

Sun Q, et al. (2024) Dynorphin modulates motivation through a pallido-amygdala cholinergic circuit. *bioRxiv : the preprint server for biology*.

Goode TD, et al. (2024) A dorsal hippocampus-prodynorphinergic dorsolateral septum-to-lateral hypothalamus circuit mediates contextual gating of feeding. *bioRxiv : the preprint server for biology*.

Wang H, et al. (2024) Prefrontal cortical dynorphin peptidergic transmission constrains threat-driven behavioral and network states. *Neuron*, 112(12), 2062.

Boyle KA, et al. (2023) Neuropeptide Y-expressing dorsal horn inhibitory interneurons gate spinal pain and itch signalling. *eLife*, 12.

Belilos A, et al. (2023) Nucleus Accumbens Local Circuit for Cue-Dependent Aversive Learning. *bioRxiv* : the preprint server for biology.

Huo J, et al. (2023) Identification of brain-to-spinal circuits controlling the laterality and duration of mechanical allodynia in mice. *Cell reports*, 42(4), 112300.

Tang Q, et al. (2023) Leptin receptor neurons in the dorsomedial hypothalamus input to the circadian feeding network. *Science advances*, 9(34), eadh9570.

Hughes AC, et al. (2023) A Novel Single Vector Intersectional AAV Strategy for Interrogating Cellular Diversity and Brain Function. *bioRxiv* : the preprint server for biology.

Belilos A, et al. (2023) Nucleus accumbens local circuit for cue-dependent aversive learning. *Cell reports*, 42(12), 113488.

Xu Y, et al. (2023) Lateral septum as a melanocortin downstream site in obesity development. *Cell reports*, 42(5), 112502.

Wu SJ, et al. (2023) Cortical somatostatin interneuron subtypes form cell-type-specific circuits. *Neuron*, 111(17), 2675.