

Resource Summary Report

Generated by [RRID](#) on Jul 30, 2026

B6;129-Oprm1^{tm1.1Cgrf}/KffJ

RRID:IMSR_JAX:030074

Type: Organism

Proper Citation

RRID:IMSR_JAX:030074

Organism Information

URL: <https://www.jax.org/strain/030074>

Proper Citation: RRID:IMSR_JAX:030074

Description: Mus musculus with name B6;129-Oprm1^{tm1.1Cgrf}/KffJ from IMSR.

Species: Mus musculus

Notes: gene symbol note: opioid receptor; mu 1; mutant stock: Oprm1

Affected Gene: opioid receptor; mu 1

Genomic Alteration: targeted mutation 1.1; Claire Gaveriaux-Ruff

Catalog Number: JAX:030074

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6;129-Oprm1^{tm1.1Cgrf}/KffJ

Record Creation Time: 20250513T053812+0000

Record Last Update: 20260725T044516+0000

Ratings and Alerts

No rating or validation information has been found for B6;129-Oprm1^{tm1.1Cgrf}/KffJ.

No alerts have been found for B6;129-Oprm1^{tm1.1Cgrf}/KffJ.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 13 mentions in open access literature.

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

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

Singhal SM, et al. (2025) Mu-opioid receptor activation potentiates excitatory transmission at the habenulo-peduncular synapse. *Cell reports*, 44(7), 115874.

Caccavano AP, et al. (2025) Divergent opioid-mediated suppression of inhibition between hippocampus and neocortex across species and development. *Neuron*, 113(11), 1805.

Sayar-Atasoy N, et al. (2024) Opioidergic signaling contributes to food-mediated suppression of AgRP neurons. *Cell reports*, 43(1), 113630.

Paniccia JE, et al. (2024) Restoration of a paraventricular thalamo-accumbal behavioral suppression circuit prevents reinstatement of heroin seeking. *Neuron*, 112(5), 772.

Lubejko ST, et al. (2024) Inputs to the locus coeruleus from the periaqueductal gray and rostroventral medulla shape opioid-mediated descending pain modulation. *Science advances*, 10(17), ead9581.

Furdui A, et al. (2024) Mu-opioid receptors in tachykinin-1-positive cells mediate the respiratory and antinociceptive effects of the opioid fentanyl. *British journal of pharmacology*.

Norris MR, et al. (2023) Endogenous opioids gate the locus coeruleus pain generator. *bioRxiv* : the preprint server for biology.

Lubejko ST, et al. (2023) Inputs to the locus coeruleus from the periaqueductal gray and rostroventral medulla shape opioid-mediated descending pain modulation. *bioRxiv* : the preprint server for biology.

Berezin CT, et al. (2023) Morphine pharmacokinetics and opioid transporter expression at the blood-retina barrier of male and female mice. *Frontiers in pharmacology*, 14, 1206104.

Vollmer KM, et al. (2022) An opioid-gated thalamoaccumbal circuit for the suppression of reward seeking in mice. *Nature communications*, 13(1), 6865.

Bergum N, et al. (2022) ??-Opioid Receptors Expressed by Intrinsically Photosensitive Retinal Ganglion Cells Contribute to Morphine-Induced Behavioral Sensitization. *International journal of molecular sciences*, 23(24).

Bachmutsky I, et al. (2020) Opioids depress breathing through two small brainstem sites. *eLife*, 9.