

Resource Summary Report

Generated by [nidm-terms](#) on Jul 29, 2026

B6.129S2-Oprm1^{tm1Kff}/J

RRID:IMSR_JAX:007559

Type: Organism

Proper Citation

RRID:IMSR_JAX:007559

Organism Information

URL: <https://www.jax.org/strain/007559>

Proper Citation: RRID:IMSR_JAX:007559

Description: Mus musculus with name B6.129S2-Oprm1^{tm1Kff}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: opioid receptor; mu 1; mutant strain|congenic strain: Oprm1

Affected Gene: opioid receptor; mu 1

Genomic Alteration: targeted mutation 1; Brigitte L Kieffer

Catalog Number: JAX:007559

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S2-Oprm1^{tm1Kff}/J

Record Creation Time: 20250513T053702+0000

Record Last Update: 20260725T044415+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S2-Oprm1^{tm1Kff}/J.

No alerts have been found for B6.129S2-Oprm1^{tm1Kff}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 12 mentions in open access literature.

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

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.

Acevedo-Canabal A, et al. (2023) Hyperactivity in Mice Induced by Opioid Agonists with Partial Intrinsic Efficacy and Biased Agonism Administered Alone and in Combination with Morphine. Biomolecules, 13(6).

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

Allain F, et al. (2022) The mu opioid receptor and the orphan receptor GPR151 contribute to social reward in the habenula. Scientific reports, 12(1), 20234.

Cleymaet AM, et al. (2021) Endogenous Opioid Signaling in the Mouse Retina Modulates Pupillary Light Reflex. International journal of molecular sciences, 22(2).

Singleton S, et al. (2021) TRV130 partial agonism and capacity to induce anti-nociceptive tolerance revealed through reducing available μ -opioid receptor number. British journal of pharmacology, 178(8), 1855.

Muralidharan A, et al. (2021) Identification and characterization of novel candidate compounds targeting 6- and 7-transmembrane μ -opioid receptor isoforms. British journal of pharmacology, 178(13), 2709.

Lyu S, et al. (2020) Mu opioid receptor knockout mouse: Phenotypes with implications on restless legs syndrome. Journal of neuroscience research, 98(8), 1532.

Hill R, et al. (2020) Fentanyl depression of respiration: Comparison with heroin and morphine. British journal of pharmacology, 177(2), 254.

Esposito G, et al. (2019) Using maternal rescue of pups in a cup to investigate mother-infant interactions in mice/rodents. Behavioural brain research, 374, 112081.

Schmid CL, et al. (2017) Bias Factor and Therapeutic Window Correlate to Predict Safer Opioid Analgesics. Cell, 171(5), 1165.

Yoshida S, et al. (2013) Transport Response is a filial-specific behavioral response to maternal carrying in C57BL/6 mice. Frontiers in zoology, 10(1), 50.