

Resource Summary Report

Generated by [NIF](#) on Aug 9, 2026

B6;129P2-Omp^{tm4(cre)}Mom/MomJ

RRID:IMSR_JAX:006668

Type: Organism

Proper Citation

RRID:IMSR_JAX:006668

Organism Information

URL: <https://www.jax.org/strain/006668>

Proper Citation: RRID:IMSR_JAX:006668

Description: Mus musculus with name B6;129P2-Omp^{tm4(cre)}Mom/MomJ from IMSR.

Species: Mus musculus

Synonyms: OMP-Cre

Notes: gene symbol note: olfactory marker protein|; mutant stock: Omp|

Affected Gene: olfactory marker protein|

Genomic Alteration: targeted mutation 4; Peter Mombaerts

Catalog Number: JAX:006668

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6;129P2-Omp^{tm4(cre)}Mom/MomJ

Record Creation Time: 20250513T053658+0000

Record Last Update: 20260808T050901+0000

Ratings and Alerts

No rating or validation information has been found for B6;129P2-Omp^{tm4(cre)}Mom/MomJ.

No alerts have been found for B6;129P2-Omp^{tm4(cre)}Mom/MomJ.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 17 mentions in open access literature.

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

Cichy A, et al. (2026) A microbiome-derived olfactory signal regulates inter-male aggression and social dominance in mice. *Current biology* : CB, 36(8), 1946.

Casanueva Reimon L, et al. (2025) Fat sensory cues in early life program central response to food and obesity. *Nature metabolism*, 7(12), 2451.

Noh J, et al. (2025) Combinatorial responsiveness of chemosensory neurons in mouse explants revealed by DynamicNeuroTracker. *Cell reports methods*, 5(11), 101216.

Noh J, et al. (2024) Combinatorial responsiveness of single chemosensory neurons to external stimulation of mouse explants revealed by DynamicNeuronTracker. *bioRxiv* : the preprint server for biology.

Conway M, et al. (2024) Perceptual constancy for an odor is acquired through changes in primary sensory neurons. *Science advances*, 10(50), eado9205.

Throesch BT, et al. (2024) Functional sensory circuits built from neurons of two species. *Cell*, 187(9), 2143.

Weiss J, et al. (2023) Presynaptic GABAB receptors inhibit vomeronasal nerve transmission to accessory olfactory bulb mitral cells. *Frontiers in cellular neuroscience*, 17, 1302955.

Fujimoto S, et al. (2023) Activity-dependent local protection and lateral inhibition control synaptic competition in developing mitral cells in mice. *Developmental cell*, 58(14), 1221.

Lin JM, et al. (2022) Sociosexual behavior requires both activating and repressive roles of Tfp2e/AP-2? in vomeronasal sensory neurons. *eLife*, 11.

Schreck MR, et al. (2022) State-dependent olfactory processing in freely behaving mice. *Cell reports*, 38(9), 110450.

Koike K, et al. (2021) Danger perception and stress response through an olfactory sensor for the bacterial metabolite hydrogen sulfide. *Neuron*, 109(15), 2469.

Pallé A, et al. (2020) G α i2+ vomeronasal neurons govern the initial outcome of an acute social competition. *Scientific reports*, 10(1), 894.

Sato T, et al. (2020) Direct Comparison of Odor Responses of Homologous Glomeruli in the Medial and Lateral Maps of the Mouse Olfactory Bulb. *eNeuro*, 7(2).

Inagaki S, et al. (2020) Widespread Inhibition, Antagonism, and Synergy in Mouse Olfactory Sensory Neurons In Vivo. *Cell reports*, 31(13), 107814.

Prabhakar A, et al. (2019) Leaky expression of channelrhodopsin-2 (ChR2) in Ai32 mouse lines. *PloS one*, 14(3), e0213326.

Marom K, et al. (2019) The Vomeronasal System Can Learn Novel Stimulus Response Pairings. *Cell reports*, 27(3), 676.

Machado CF, et al. (2017) Conditional Deletion of Ric-8b in Olfactory Sensory Neurons Leads to Olfactory Impairment. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 37(50), 12202.