Resource Summary Report

Generated by RRID on Jul 29, 2026

B6J.B6N(Cg)-Cx3cr1$^{tm1.1(cre)Jung}$/J

RRID:IMSR_JAX:025524
Type: Organism

Proper Citation

RRID:IMSR_JAX:025524

Organism Information

URL: https://www.jax.org/strain/025524

Proper Citation: RRID:IMSR_JAX:025524

Description: Mus musculus with name B6J.B6N(Cg)-Cx3cr1$^{tm1.1(cre)Jung}$/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: C-X3-C motif chemokine receptor 1|; mutant strain|congenic strain: Cx3cr1|

Affected Gene: C-X3-C motif chemokine receptor 1|

Genomic Alteration: targeted mutation 1.1; Steffen Jung

Catalog Number: JAX:025524

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6J.B6N(Cg)-Cx3cr1$^{tm1.1(cre)Jung}$/J

Record Creation Time: 20250513T053754+0000

Record Last Update: 20260725T044500+0000

Ratings and Alerts

No rating or validation information has been found for B6J.B6N(Cg)-Cx3cr1$^{tm1.1(cre)Jung}$/J.

No alerts have been found for B6J.B6N(Cg)-Cx3cr1$^{tm1.1(cre)Jung}$/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 62 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID .

Mou YJ, et al. (2025) NADPH acts as an endogenous P2X7 receptor modulator to gate neuroinflammatory responses of microglia. Acta pharmacologica Sinica.

Zengeler KE, et al. (2025) Inflammasome signaling in astrocytes modulates hippocampal plasticity. Immunity, 58(6), 1519.

McKinsey GL, et al. (2025) Radial glia integrin avb8 regulates cell autonomous microglial TGF?1 signaling that is necessary for microglial identity. Nature communications, 16(1), 2840.

Van Roy Z, et al. (2025) Interferon-gamma receptor signaling regulates innate immunity during Staphylococcus aureus craniotomy infection. Journal of neuroinflammation, 22(1), 46.

Lu H, et al. (2025) Targeting Microglial CD49a Inhibits Neuroinflammation and Demonstrates Therapeutic Potential for Parkinson's Disease. Advanced science (Weinheim, Baden-Wurttemberg, Germany), e15138.

Kumaraguru S, et al. (2025) Activity-dependent regulation of microglia numbers by pyramidal cells during development shape cortical functions. Science advances, 11(8), eadq5842.

Xu Y, et al. (2025) Systematic monocyte subset analysis reveals differential contribution of Notch signaling components to monocyte heterogeneity. iScience, 28(11), 113795.

Petry P, et al. (2025) Early microglia progenitors colonize the embryonic CNS via integrin-mediated migration from the pial surface. Developmental cell.

Hu X, et al. (2025) The transcription factor MEF2C restrains microglial overactivation by inhibiting kinase CDK2. Immunity, 58(4), 946.

Kim SH, et al. (2025) IL-10 sensing by lung interstitial macrophages prevents bacterial dysbiosis-driven pulmonary inflammation and maintains immune homeostasis. Immunity, 58(5), 1306.

Méndez FA, et al. (2025) Acute and Long-Term Consequences of Neonatal NMDA Blockade in the Cx3cr1 Knock-Out Mouse. Inflammation.

Zhu B, et al. (2025) G-protein-coupled receptor ADGRG1 drives a protective microglial state in Alzheimer's disease through MYC activation. Neuron.

Li S, et al. (2025) Microglia mediated by LAG3 regulate astrocyte morphogenesis in the brain white matter. Cell reports, 44(8), 116112.

Wang Y, et al. (2024) BACH1 changes microglial metabolism and affects astrogenesis during mouse brain development. Developmental cell, 59(1), 108.

Trzebanski S, et al. (2024) Classical monocyte ontogeny dictates their functions and fates as tissue macrophages. Immunity, 57(6), 1225.

Nakanishi Y, et al. (2024) Semaphorin 6D tunes amygdalar circuits for emotional, metabolic, and inflammatory outputs. Neuron, 112(17), 2955.

Hu J, et al. (2024) UFObow: A single-wavelength excitable Brainbow for simultaneous multicolor ex-vivo and in-vivo imaging of mammalian cells. Communications biology, 7(1), 394.

Abdelbasset M, et al. (2024) Differential contributions of fetal mononuclear phagocytes to Zika virus neuroinvasion versus neuroprotection during congenital infection. Cell, 187(26), 7511.

Huang S, et al. (2024) Disruption of the Na+/K+-ATPase-purinergic P2X7 receptor complex in microglia promotes stress-induced anxiety. Immunity, 57(3), 495.

Viengkhou B, et al. (2024) The brain microvasculature is a primary mediator of interferon-? neurotoxicity in human cerebral interferonopathies. Immunity, 57(7), 1696.