Resource Summary Report

Generated by NIF on Aug 1, 2026

B6.129P2(Cg)-Cx3cr1$^{tm2.1(cre/ERT2)Litt}$/WganJ

RRID:IMSR_JAX:021160
Type: Organism

Proper Citation

RRID:IMSR_JAX:021160

Organism Information

URL: https://www.jax.org/strain/021160

Proper Citation: RRID:IMSR_JAX:021160

Description: Mus musculus with name B6.129P2(Cg)-Cx3cr1$^{tm2.1(cre/ERT2)Litt}$/WganJ from IMSR.

Species: Mus musculus

Synonyms: B6.129P2(Cg)-Cx3cr1/WganJ. B6.129P2(Cg)-Cx3cr1/WganJ

Notes: gene symbol note: C-X3-C motif chemokine receptor 1|Cre recombinase and estrogen receptor 1 (human) fusion gene; mutant strain|congenic strain: Cx3cr1|cre/ERT2

Affected Gene: C-X3-C motif chemokine receptor 1|Cre recombinase and estrogen receptor 1 (human) fusion gene

Genomic Alteration: targeted mutation 2.1; Dan R Littman

Catalog Number: JAX:021160

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129P2(Cg)-Cx3cr1$^{tm2.1(cre/ERT2)Litt}$/WganJ

Record Creation Time: 20250513T053742+0000

Record Last Update: 20260801T050450+0000

Ratings and Alerts

No rating or validation information has been found for B6.129P2(Cg)-Cx3cr1 $^{tm2.1(cre/ERT2)Litt}$/WganJ.

No alerts have been found for B6.129P2(Cg)-Cx3cr1$^{tm2.1(cre/ERT2)Litt}$/WganJ.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 170 mentions in open access literature.

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

Déchelle-Marquet PA, et al. (2025) Macrophage expression of P2X7 controls autoimmune uveitis. Journal of neuroinflammation, 22(1), 212.

Ewing-Crystal NA, et al. (2025) Dynamic fibroblast-immune interactions shape recovery after brain injury. Nature, 646(8086), 934.

Shea JM, et al. (2025) Microglia aging in the hippocampus advances through intermediate states that drive activation and cognitive decline. eLife, 13.

Yi MH, et al. (2025) Optogenetic activation of cortical microglia promotes neuronal activity and pain hypersensitivity. Cell reports, 44(5), 115717.

Kim DV, et al. (2025) E. coli-activated cellular circuit restrains intestinal inflammatory microbiota-specific T cells and protects against colitis. Cell reports, 44(10), 116332.

Faust TE, et al. (2025) Microglia-astrocyte crosstalk regulates synapse remodeling via Wnt signaling. Cell.

Shafiq S, et al. (2025) Microglial deficiency in the ATRX chromatin remodeler elicits a viral mimicry immune response that impacts neuronal function and behavior. PLoS biology, 23(9), e3002659.

Fan CY, et al. (2025) Divergent sex-specific pannexin-1 mechanisms in microglia and T cells underlie neuropathic pain. Neuron, 113(6), 896.

Martín-Ávila A, et al. (2025) Clearing truncated tau protein restores neuronal function and prevents microglia activation in tauopathy mice. Cell reports, 44(10), 116291.

Bastos J, et al. (2025) Monocytes can efficiently replace all brain macrophages and fetal liver monocytes can generate bona fide SALL1+ microglia. Immunity, 58(5), 1269.

Qin T, et al. (2025) Treg-microglia partnership in the injured spinal cord preserves Treg cell function and regulates microglial cholesterol metabolism. Neuron.

Jung H, et al. (2025) The NLRP3 inflammasome in microglia regulates repetitive behavior by modulating NMDA glutamate receptor functions. Cell reports, 44(5), 115656.

Zuo Y, et al. (2025) Monocyte-derived cells promote transient insult-induced brain injury by enhancing CD8+ T cell response. Cell reports, 44(11), 116528.

Flury A, et al. (2025) A neurodegenerative cellular stress response linked to dark microglia and toxic lipid secretion. Neuron, 113(4), 554.

Rodriguez-Baena FJ, et al. (2025) Microglial reprogramming enhances antitumor immunity and immunotherapy response in melanoma brain metastases. Cancer cell, 43(3), 413.

Rodriguez-Baena FJ, et al. (2025) Protocol for generation, quantification, and phenotyping of brain metastases in preclinical mouse models. STAR protocols, 6(3), 103978.

Vicario R, et al. (2025) Role of clonal inflammatory microglia in histiocytosis-associated neurodegeneration. Neuron, 113(7), 1065.

Aisenberg WH, et al. (2025) Direct microglia replacement reveals pathologic and therapeutic contributions of brain macrophages to a monogenic neurological disease. Immunity, 58(5), 1254.

Murali SV, et al. (2025) CX3CR1 Fate-Mapping In Vivo Distinguishes Cochlear Resident and Recruited Macrophages After Acoustic Trauma. bioRxiv : the preprint server for biology.

Zhang Z, et al. (2025) Prenatal electroacupuncture modulates maternal-fetal immune activation via a brain-to-splenic signal. Cell reports, 44(11), 116576.