

Resource Summary Report

Generated by [RRID](#) on Jul 29, 2026

C;129S4-Rag2^{tm1.1Flv} Csf1 Il2rg/J

RRID:IMSR_JAX:017708

Type: Organism

Proper Citation

RRID:IMSR_JAX:017708

Organism Information

URL: <https://www.jax.org/strain/017708>

Proper Citation: RRID:IMSR_JAX:017708

Description: Mus musculus with name C;129S4-Rag2^{tm1.1Flv} Csf1 Il2rg/J from IMSR.

Species: Mus musculus

Synonyms: C;129S4-Rag2 Csf1 Il2rg/J

Notes: gene symbol note: colony stimulating factor 1 (macrophage)|recombination activating gene 2|colony stimulating factor 1|interleukin 2 receptor; gamma chain; mutant stock: Csf1|Rag2|CSF1|Il2rg

Affected Gene: colony stimulating factor 1 (macrophage)|recombination activating gene 2|colony stimulating factor 1|interleukin 2 receptor; gamma chain

Genomic Alteration: targeted mutation 1; Richard A Flavell|targeted mutation 1.1; Richard A Flavell

Catalog Number: JAX:017708

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: C;129S4-Rag2^{tm1.1Flv} Csf1 Il2rg/J

Record Creation Time: 20250513T053734+0000

Record Last Update: 20260725T044442+0000

Ratings and Alerts

No rating or validation information has been found for C;129S4-Rag2^{tm1.1Flv} Csfl Il2rg/J.

No alerts have been found for C;129S4-Rag2^{tm1.1Flv} Csfl Il2rg/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

Nguyen C, et al. (2025) Transcriptional and epigenetic targets of MEF2C in human microglia contribute to cellular functions related to autism risk and age-related disease. *Nature immunology*, 26(11), 1989.

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.

Ma W, et al. (2024) Human-induced pluripotent stem cell-derived microglia integrate into mouse retina and recapitulate features of endogenous microglia. *eLife*, 12.

Chadarevian JP, et al. (2024) Therapeutic potential of human microglia transplantation in a chimeric model of CSF1R-related leukoencephalopathy. *Neuron*, 112(16), 2686.

Min AK, et al. (2023) HIV-1 infection of genetically engineered iPSC-derived central nervous system-engrafted microglia in a humanized mouse model. *bioRxiv : the preprint server for biology*.

Jin M, et al. (2022) Type-I-interferon signaling drives microglial dysfunction and senescence in human iPSC models of Down syndrome and Alzheimer's disease. *Cell stem cell*, 29(7), 1135.

Cao Q, et al. (2021) Abraxane-induced bone marrow CD11b+ myeloid cell depletion in tumor-bearing mice is visualized by ⁶⁴PET-CT with ⁶⁴Cu-labeled anti-CD11b and prevented by anti-CSF-1. *Theranostics*, 11(7), 3527.

Hasselmann J, et al. (2019) Development of a Chimeric Model to Study and Manipulate Human Microglia In Vivo. *Neuron*, 103(6), 1016.

Bennett FC, et al. (2018) A Combination of Ontogeny and CNS Environment Establishes Microglial Identity. *Neuron*, 98(6), 1170.