

Resource Summary Report

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

C57L/J

RRID:IMSR_JAX:000668

Type: Organism

Proper Citation

RRID:IMSR_JAX:000668

Organism Information

URL: <https://www.jax.org/strain/000668>

Proper Citation: RRID:IMSR_JAX:000668

Description: Mus musculus with name C57L/J from IMSR.

Species: Mus musculus

Synonyms: C57 Leaden. L. leaden

Notes: gene symbol note: melanophilin|aryl-hydrocarbon receptor|cadherin related 23 (otocadherin)|beta-2 microglobulin|MX dynamin-like GTPase 1|obesity QTL 3|obesity QTL 4|resistance to MCF virus|hemoglobin beta chain complex|cytochrome c oxidase subunit 7A2 like; inbred strain: Mlph|Ahr|Cdh23|B2m|Mx1|Obq3|Obq4|Rmcf|Hbb|Cox7a2l

Affected Gene: melanophilin|aryl-hydrocarbon receptor|cadherin related 23 (otocadherin)|beta-2 microglobulin|MX dynamin-like GTPase 1|obesity QTL 3|obesity QTL 4|resistance to MCF virus|hemoglobin beta chain complex|cytochrome c oxidase subunit 7A2 like

Genomic Alteration: leaden|b-1 variant|age related hearing loss 1|b variant|myxovirus susceptibility 1|C57L/J|MCF sensitive|single|long

Catalog Number: JAX:000668

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: C57L/J

Record Creation Time: 20250513T053620+0000

Ratings and Alerts

No rating or validation information has been found for C57L/J.

No alerts have been found for C57L/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 69 mentions in open access literature.

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

Yu X, et al. (2025) Targeted inhibition of hepatic de novo ceramide synthesis ameliorates MASH. Science advances, 11(39), eadx2681.

Zhao B, et al. (2025) Targeted inhibition of PDGFRA with avapritinib, markedly enhances lenvatinib efficacy in hepatocellular carcinoma in vitro and in vivo: clinical implications. Journal of experimental & clinical cancer research : CR, 44(1), 139.

Yang S, et al. (2025) LTA4H improves the tumor microenvironment and prevents HCC progression via targeting the HNRNPA1/LTBP1/TGF- β axis. Cell reports. Medicine, 6(3), 102000.

Utsunomiya G, et al. (2025) Potential inhibitory effect of Shigyakusan on gallstone formation in a mice model of cholesterol gallstone Disease. The Journal of veterinary medical science, 87(11), 1238.

Ren W, et al. (2025) A tandem repeat atlas for the genome of inbred mouse strains: A genetic variation resource. iScience, 28(11), 113703.

Reed C, et al. (2024) Does tolerance to ethanol-induced ataxia explain the sensitized response to ethanol? Frontiers in psychiatry, 15, 1418490.

Beach T, et al. (2024) Delayed effects of radiation exposure in a C57L/J mouse model of partial body irradiation with ~2.5% bone marrow shielding. Frontiers in public health, 12, 1349552.

Chen Z, et al. (2024) Neuronal-enriched small extracellular vesicles trigger a PD-L1-mediated broad suppression of T cells in Parkinson's disease. iScience, 27(7), 110243.

Wang Z, et al. (2023) Twelve-week treadmill endurance training in mice is associated with upregulation of interleukin-15 and natural killer cell activation and increases apoptosis rate

in Hepa1-6 cell-derived mouse hepatomas. Brazilian journal of medical and biological research = Revista brasileira de pesquisas medicas e biologicas, 56, e12296.

Torres-Gonzalez M, et al. (2023) Whole-Milk Dairy Foods: Biological Mechanisms Underlying Beneficial Effects on Risk Markers for Cardiometabolic Health. Advances in nutrition (Bethesda, Md.), 14(6), 1523.

Abston E, et al. (2023) Noninvasive Quantification of Radiation-Induced Lung Injury using a Targeted Molecular Imaging Probe. medRxiv : the preprint server for health sciences.

Liang Y, et al. (2023) Systemic delivery of glycosylated-PEG-masked oncolytic virus enhances targeting of antitumor immuno-virotherapy and modulates T and NK cell infiltration. Theranostics, 13(15), 5452.

He W, et al. (2023) Single-cell transcriptomics of hepatic stellate cells uncover crucial pathways and key regulators involved in non-alcoholic steatohepatitis. Endocrine connections, 12(2).

Oestereich MA, et al. (2023) Comprehensive ECG reference intervals in C57BL/6N substrains provide a generalizable guide for cardiac electrophysiology studies in mice. Mammalian genome : official journal of the International Mammalian Genome Society, 34(2), 180.

Zhao K, et al. (2023) Functional hierarchy among different Rab27 effectors involved in secretory granule exocytosis. eLife, 12.

Khan AH, et al. (2023) Genetic pathways regulating the longitudinal acquisition of cocaine self-administration in a panel of inbred and recombinant inbred mice. Cell reports, 42(8), 112856.

Sheppard K, et al. (2022) Stride-level analysis of mouse open field behavior using deep-learning-based pose estimation. Cell reports, 38(2), 110231.

Wang Y, et al. (2021) Histone citrullination by PADI4 is required for HIF-dependent transcriptional responses to hypoxia and tumor vascularization. Science advances, 7(35).

Raman V, et al. (2021) Intracellular delivery of protein drugs with an autonomously lysing bacterial system reduces tumor growth and metastases. Nature communications, 12(1), 6116.

Zhao Z, et al. (2021) Autoimmune experimental orchitis and chronic glomerulonephritis with end stage renal disease are controlled by Cgzn1 for susceptibility to end organ damage. Clinical immunology (Orlando, Fla.), 224, 108675.