

Resource Summary Report

Generated by [Kravitz](#) on Sep 19, 2026

C57BL/6J

RRID:IMSR_JAX:000664

Type: Organism

Proper Citation

RRID:IMSR_JAX:000664

Organism Information

URL: <https://www.jax.org/strain/000664>

Proper Citation: RRID:IMSR_JAX:000664

Description: Mus musculus with name C57BL/6J from IMSR.

Species: Mus musculus

Synonyms: B6. B6J. Black 6. C57 Black. C57BL/6JAnu

Notes: gene symbol note: microwave induced increase in complement receptor B cells|aryl-hydrocarbon receptor|arylalkylamine N-acetyltransferase|glucose homeostasis QTL 1|forebrain weight 1|beta-2 microglobulin|apolipoprotein B mRNA editing enzyme; catalytic polypeptide 3|MX dynamin-like GTPase 1|glucose homeostasis QTL 2|nuclear encoded tRNA arginine 5 (anticodon TCT)|CD5 antigen|latent transforming growth factor beta binding protein 4|forebrain weight 2|NLR family; pyrin domain containing 12|purinergic receptor P2X; ligand-gated ion channel; 7|cadherin related 23 (otocadherin)|hemoglobin beta chain complex|nicotinamide nucleotide transhydrogenase|annexin A6|gamma-aminobutyric acid type A receptor subunit alpha 2|cytochrome c oxidase subunit 7A2 like|glucose homeostasis QTL 3; inbred strain: Micr|Ahr|Aanat|Gluchos1|Fbrwt1|B2m|Apobec3|Mx1|Gluchos2|n-TRtct5|Cd5|Ltbp4|Fbrwt2|Nlrp12|P2rx7|Cdh23|Hbb|Nnt|Anxa6|Gabra2|Cox7a2|Gluchos3

Affected Gene: microwave induced increase in complement receptor B cells|aryl-hydrocarbon receptor|arylalkylamine N-acetyltransferase|glucose homeostasis QTL 1|forebrain weight 1|beta-2 microglobulin|apolipoprotein B mRNA editing enzyme; catalytic polypeptide 3|MX dynamin-like GTPase 1|glucose homeostasis QTL 2|nuclear encoded tRNA arginine 5 (anticodon TCT)|CD5 antigen|latent transforming growth factor beta binding protein 4|forebrain weight 2|NLR family; pyrin domain containing 12|purinergic receptor P2X; ligand-gated ion channel; 7|cadherin related 23 (otocadherin)|hemoglobin beta chain complex|nicotinamide nucleotide transhydrogenase|annexin A6|gamma-aminobutyric acid type A receptor subunit alpha 2|cytochrome c oxidase subunit 7A2 like|glucose homeostasis QTL 3

Genomic Alteration: non-responder|b-1 variant|rs216509331 SNP allele with the A variant|C57BL/6J|b variant|recovery from Friend virus 3; resistant|myxovirus susceptibility 1|mutation 1; Jackson|Duchenne modifier 1 resistant|rs48804829 SNP allele with the T variant|age related hearing loss 1|single|rs26961431 SNP allele with the G variant|C57BL/6J variant|short

Catalog Number: JAX:000664

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: C57BL/6J

Record Creation Time: 20250513T053620+0000

Record Last Update: 20260919T054809+0000

Ratings and Alerts

- Used for genotyping by the Human Islet Research Network community. Contact(s): Pedro Herrera, Simona Chera, Seung Kim, Charles Chang - Human Islets Research Network <https://hirnetwork.org/>

Warning: Warning this mouse may be epileptogenic. The cause seems to be that the GABAA receptor is expressed at very low levels compared to other mouse strains including the C57BL/6N, according to Hawkins (2016) and Mulligan (2019).

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 209963 mentions in open access literature.

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

Ware K, et al. (2026) Cell type-dependent role of transforming growth factor- β signaling on postnatal neural stem cell proliferation and migration. *Neural regeneration research*, 21(3), 1151.

Yang L, et al. (2026) IL-1R1-positive dorsal raphe neurons drive self-imposed social withdrawal in sickness. *Cell*, 189(1), 272.

Viscomi MP, et al. (2026) Embryonic and placental factors are linked with the development of autism-like behaviors in the BTBR mouse model. *Neuroscience*, 593, 18.

Gardner W, et al. (2026) The mPFC molecular clock mediates the effects of sleep deprivation on depression-like behavior and regulates sleep consolidation and homeostasis. *Molecular psychiatry*, 31(3), 1530.

Herbrich S, et al. (2026) TET2-mutant clonal hematopoiesis enhances macrophage antigen presentation and improves immune checkpoint therapy in solid tumors. *Cancer cell*, 44(1), 187.

Centonze A, et al. (2026) A Plastic EMP1+ to LGR5+ Cell State Conversion as a Bypass to KRASG12D Pharmacologic Inhibition in Metastatic Colorectal Cancer. *Cancer discovery*, 16(2), 320.

Kratzli RP, et al. (2026) C5aR1 Inhibition Alleviates Cranial Radiation-Induced Cognitive Decline. *Cancer research*, 86(1), 255.

Qiao S, et al. (2026) Microbiota utilization of intestinal amino acids modulates cancer progression and anticancer immunity. *Cell host & microbe*, 34(1), 18.

Pan J, et al. (2026) Cannabidiol suppresses emergency MDSCs generation by disturbing EEf1B2-mediated C/EBP β protein synthesis in colorectal adenomas. *Journal for immunotherapy of cancer*, 14(1).

Tickman BI, et al. (2026) The response to kidney injury is epigenetically regulated through the activation of bivalent genes. *American journal of physiology. Renal physiology*, 330(2), F238.

Hoyt-Miggelbrink AM, et al. (2026) Upregulation of TNFR2 Precedes TOX Expression by Exhausted T cells and Restricts Antitumor and Antiviral Immunity. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 32(4), 782.

Avanessian SC, et al. (2026) IL2/IL15 Signaling Induces NK Cell Production of FLT3LG, Augmenting Anti-PD-1 Immunotherapy. *Cancer immunology research*, 14(1), 122.

Liao A, et al. (2026) Transcript-guided targeted cell enrichment for scalable single-nucleus RNA sequencing. *Cell genomics*, 6(3), 101101.

D'Alessio A, et al. (2026) Neurometabolic adaptations to intestinal inflammation in a mouse model of colitis. *American journal of physiology. Gastrointestinal and liver physiology*, 330(2), G98.

Wittling MC, et al. (2026) T-cell Priming by High-Avidity Neoantigens in Lymph Nodes Augments Adoptive Immunotherapy. *Cancer immunology research*, 14(3), 463.

Tripathi A, et al. (2026) Protocol for intranuclear Nrf2 detection in activated mouse, human, and Jurkat T cells by spectral flow cytometry. *STAR protocols*, 7(1), 104360.

McIlvried LA, et al. (2026) CGRP signaling links tumor-associated pain to immune evasion in oral squamous cell carcinoma. *Cell reports*, 45(2), 116994.

Bandi DSR, et al. (2026) ADT-030, a novel PDE10 inhibitor, demonstrates potent antitumor activity in pancreatic ductal adenocarcinoma. bioRxiv : the preprint server for biology.

Kipcak A, et al. (2026) CBLN2 promoter enables genetic access to wide-field neurons of the tree shrew superior colliculus. Cell reports methods, 6(3), 101309.

Liu S, et al. (2026) γ -hydroxybutyrate enhances the metabolic fitness of CAR T cells in cancer. Cell, 189(6), 1701.