

# Resource Summary Report

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## C57BL/6J

RRID:IMSR\_JAX:000664

Type: Organism

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### Proper Citation

RRID:IMSR\_JAX:000664

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### 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: glucose homeostasis QTL 2|CD5 antigen|hemoglobin beta chain complex|apolipoprotein B mRNA editing enzyme; catalytic polypeptide 3|arylalkylamine N-acetyltransferase|glucose homeostasis QTL 1|annexin A6|latent transforming growth factor beta binding protein 4|nicotinamide nucleotide transhydrogenase|microwave induced increase in complement receptor B cells|nuclear encoded tRNA arginine 5 (anticodon TCT)|aryl-hydrocarbon receptor|MX dynamin-like GTPase 1|gamma-aminobutyric acid type A receptor subunit alpha 2|NLR family; pyrin domain containing 12|cadherin related 23 (otocadherin)|beta-2 microglobulin|forebrain weight 2|forebrain weight 1|purinergic receptor P2X; ligand-gated ion channel; 7|glucose homeostasis QTL 3|cytochrome c oxidase subunit 7A2 like; inbred strain: Glucos2|Cd5|Hbb|Apobec3|Aanat|Glucos1|Anxa6|Ltbp4|Nnt|Micr|n-TRtct5|Ahr|Mx1|Gabra2|Nlrp12|Cdh23|B2m|Fbrwt2|Fbrwt1|P2rx7|Glucos3|Cox7a2|

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

**Genomic Alteration:** C57BL/6J|b variant|single|recovery from Friend virus 3; resistant|rs216509331 SNP allele with the A variant|rs26961431 SNP allele with the G variant|Duchenne modifier 1 resistant|non-responder|mutation 1; Jackson|b-1 variant|myxovirus susceptibility 1|C57BL/6J variant|age related hearing loss 1|rs48804829 SNP allele with the T 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:** 20260815T050529+0000

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## 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).

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## Data and Source Information

**Source:** [Integrated Animals](#)

**Source Database:** JAX Mice and Services

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## Usage and Citation Metrics

We found 209963 mentions in open access literature.

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

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

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.

- 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.
- Liao A, et al. (2026) Transcript-guided targeted cell enrichment for scalable single-nucleus RNA sequencing. *Cell genomics*, 6(3), 101101.
- 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 $\beta$  protein synthesis in colorectal adenomas. *Journal for immunotherapy of cancer*, 14(1).
- Ruta A, et al. (2026) Tissue Injury and Biomaterial Treatment Modulate Tumor Growth and Response to Immunotherapy. *bioRxiv : the preprint server for biology*.
- 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.
- Decouty-Pérez C, et al. (2026) Uncovering the Role of Thrombospondin-1 and Occludin as Potential Prognostic and Diagnostic Biomarkers in Traumatic Brain Injury. *International journal of molecular sciences*, 27(2).
- Yadav S, et al. (2026) A triple-node heart-brain neuroimmune loop underlying myocardial infarction. *Cell*, 189(3), 800.
- Brandquist ND, et al. (2026) Differential sensitivity of leukocyte populations to *Staphylococcus aureus* biofilm. *Infection and immunity*, 94(3), e0065425.
- McIlvried LA, et al. (2026) CGRP signaling links tumor-associated pain to immune evasion in oral squamous cell carcinoma. *Cell reports*, 45(2), 116994.
- 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.
- Guo C, et al. (2026) NFAT mediates pro-tumorigenic inflammation in cancer-associated fibroblasts in pancreatic ductal adenocarcinoma. *Cell reports*, 45(1), 116849.
- Lyubetskaya A, et al. (2026) In situ multi-modal characterization of pancreatic cancer reveals tumor cell identity as a defining factor of the surrounding microenvironment. *Cell reports*, 45(1), 116827.
- Ravi VR, et al. (2026) Second-order regulation: IFN- $\gamma$  suppresses IL-17A-mediated neutrophilic inflammation. *bioRxiv : the preprint server for biology*.
- Abdulla ZI, et al. (2026) mPFC Synaptosome Proteomics Reveals Novel Pathways and Muscarinic Receptor Changes in a Learned Helplessness Mouse Model. *bioRxiv : the preprint server for biology*.
- Finneran MC, et al. (2026) AxoMetric platform facilitates rapid and unbiased automated quantification of axon regeneration in tissue sections. *Cell reports methods*, 6(2), 101296.

Aldrich JC, et al. (2026) DLK inhibition has sex-specific effects on neuroprotection and locomotor recovery after spinal cord injury. *Experimental neurology*, 399, 115681.

Burroughs RW, et al. (2026) Reduced Dietary Protein Induces Changes in the Dental Proteome. *Journal of experimental zoology. Part B, Molecular and developmental evolution*, 346(2), 107.