

Resource Summary Report

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

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

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

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: 20260801T050324+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 195795 mentions in open access literature.

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

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

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.

- 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.
- 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.
- 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.
- 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).
- Hill K, et al. (2026) Impact of a GABA-Producing *Lactococcus lactis* on Microbiota and Mycobiota During CNS Inflammatory Demyelination. *FASEB bioAdvances*, 8(1), e70085.
- 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- γ suppresses IL-17A-mediated neutrophilic inflammation. *bioRxiv : the preprint server for biology*.
- Caceres A, et al. (2026) High glucose diet induces hepatic iron overload contributing to metabolic dysfunction. *iScience*, 29(1), 114441.
- Eme-Solan E, et al. (2026) Remodeling of skull bone channels regulates immune infiltration into the meninges during neuroinflammation. *Immunity*, 59(1), 116.
- Zhu H, et al. (2026) AAV-PHP.eB Peripheral Delivery and Central Expression in Cre Mice. *The Journal of comparative neurology*, 534(1), e70125.
- Scott-Solomon E, et al. (2026) Stress-induced sympathetic hyperactivation drives hair follicle necrosis to trigger autoimmunity. *Cell*, 189(1), 252.
- Diaz A, et al. (2026) Effect of encephalomyosynangiosis procedure on post stroke recovery in a permanent model of ischemic stroke. *Experimental neurology*, 396, 115559.
- Lovatt C, et al. (2026) Memory engram synapse 3D macromolecular architecture visualized by cryoCLEM-guided cryoET. *Structure (London, England : 1993)*, 34(1), 100.

Jiang H, et al. (2026) IL-9 as a naturally orthogonal cytokine with optimal JAK/STAT signaling for engineered T cell therapy. *Immunity*, 59(1), 177.

Angeli S, et al. (2026) Modulating tumor mechanics and vascular barriers to enhance chemotherapy efficacy in pancreatic tumors and melanoma. *Journal of controlled release : official journal of the Controlled Release Society*, 390, 114546.