

Resource Summary Report

Generated by [FDI Lab - SciCrunch.org](https://www.fdi-lab.org) on Apr 24, 2025

[A/J](#)

RRID:IMSR_JAX:000646

Type: Organism

Proper Citation

RRID:IMSR_JAX:000646

Organism Information

URL: <https://www.jax.org/strain/000646>

Proper Citation: RRID:IMSR_JAX:000646

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

Species: Mus musculus

Synonyms: A. AJ

Notes: gene symbol note: citrate synthase|bronchial hyperresponsiveness 1|cytochrome c oxidase subunit 7A2 like|neuregulin 3|beta-2 microglobulin|mitochondrially encoded tRNA arginine|NLR family; apoptosis inhibitory protein 5|MX dynamin-like GTPase 1|resistance to MCF virus|hemolytic complement|interleukin 3 receptor; alpha chain|microwave induced increase in complement receptor B cells|bronchial hyperresponsiveness 5|wingless-type MMTV integration site family; member 9B|dysferlin|latent transforming growth factor beta binding protein 4|aryl-hydrocarbon receptor|cadherin related 23 (otocadherin); inbred strain: Cs|Bhr1|Cox7a2|Nrg3|B2m|mt-Tr|Naip5|Mx1|Rmcf|Hc|Il3ra|Micr|Bhr5|Wnt9b|Dysf|Ltbp4|Ahr|Cdh23

Affected Gene: citrate synthase|bronchial hyperresponsiveness 1|cytochrome c oxidase subunit 7A2 like|neuregulin 3|beta-2 microglobulin|mitochondrially encoded tRNA arginine|NLR family; apoptosis inhibitory protein 5|MX dynamin-like GTPase 1|resistance to MCF virus|hemolytic complement|interleukin 3 receptor; alpha chain|microwave induced increase in complement receptor B cells|bronchial hyperresponsiveness 5|wingless-type MMTV integration site family; member 9B|dysferlin|latent transforming growth factor beta binding protein 4|aryl-hydrocarbon receptor|cadherin related 23 (otocadherin)

Genomic Alteration: age related hearing loss 4|A/J|long|scaramanga|a variant|mutation

1|Legionella; susceptibility 1|myxovirus susceptibility 1|MCF sensitive|deficient|mutation 1|non-responder|A/J|cleft lip 1|progressive muscular dystrophy|Duchenne modifier 1 susceptible|b-2 variant|age related hearing loss 1

Catalog Number: JAX:000646

Database: International Mouse Resource Center IMSR, JAX

Database Abbreviation: IMSR

Availability: live

Alternate IDs: IMSR_JAX:646

Organism Name: A/J

Record Creation Time: 20230509T193230+0000

Record Last Update: 20250412T090206+0000

Ratings and Alerts

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

No alerts have been found for A/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: International Mouse Resource Center IMSR, JAX

Usage and Citation Metrics

We found 33 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Cousineau CM, et al. (2024) Reduced beta-hydroxybutyrate disposal after ketogenic diet feeding in mice. bioRxiv : the preprint server for biology.

Wienke J, et al. (2024) Integrative analysis of neuroblastoma by single-cell RNA sequencing identifies the NECTIN2-TIGIT axis as a target for immunotherapy. Cancer cell, 42(2), 283.

Reed JN, et al. (2024) Combined effects of genetic background and diet on mouse metabolism and gene expression. iScience, 27(12), 111323.

Li X, et al. (2024) Cannabidiol attenuates seizure susceptibility and behavioural deficits in adult CDKL5R59X knock-in mice. *The European journal of neuroscience*, 59(12), 3337.

Li B, et al. (2024) LncRNA XIST modulates miR-328-3p ectopic expression in lung injury induced by tobacco-specific lung carcinogen NNK both in vitro and in vivo. *British journal of pharmacology*, 181(15), 2509.

Oliveira TY, et al. (2024) Quantitative trait loci mapping provides insights into the genetic regulation of dendritic cell numbers in mouse tissues. *Cell reports*, 43(6), 114296.

Chen PB, et al. (2024) Complementation testing identifies genes mediating effects at quantitative trait loci underlying fear-related behavior. *Cell genomics*, 4(5), 100545.

Baschant U, et al. (2024) Effects of dietary iron deficiency or overload on bone: Dietary details matter. *Bone*, 184, 117092.

Ferraj A, et al. (2023) Resolution of structural variation in diverse mouse genomes reveals chromatin remodeling due to transposable elements. *Cell genomics*, 3(5), 100291.

Gray GK, et al. (2023) Single-cell and spatial analyses reveal a tradeoff between murine mammary proliferation and lineage programs associated with endocrine cues. *Cell reports*, 42(10), 113293.

Dhamdhere MR, et al. (2023) IGF2BP1 regulates the cargo of extracellular vesicles and promotes neuroblastoma metastasis. *Oncogene*, 42(19), 1558.

Emfinger CH, et al. (2023) Novel regulators of islet function identified from genetic variation in mouse islet Ca²⁺ oscillations. *eLife*, 12.

Hou R, et al. (2022) Targeting EP2 receptor with multifaceted mechanisms for high-risk neuroblastoma. *Cell reports*, 39(12), 111000.

Molendijk J, et al. (2022) Proteome-wide systems genetics identifies UFMylation as a regulator of skeletal muscle function. *eLife*, 11.

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

Bachmann AM, et al. (2022) Genetic background and sex control the outcome of high-fat diet feeding in mice. *iScience*, 25(6), 104468.

Webb ER, et al. (2022) Cyclophosphamide depletes tumor infiltrating T regulatory cells and combined with anti-PD-1 therapy improves survival in murine neuroblastoma. *iScience*, 25(9), 104995.

Won T, et al. (2022) Cardiac myosin-specific autoimmune T cells contribute to immune-checkpoint-inhibitor-associated myocarditis. *Cell reports*, 41(6), 111611.

Wilde JJ, et al. (2021) Efficient embryonic homozygous gene conversion via RAD51-enhanced interhomolog repair. *Cell*, 184(12), 3267.

Chan CS, et al. (2021) Genetic and stochastic influences upon tumor formation and tumor types in Li-Fraumeni mouse models. *Life science alliance*, 4(3).