

Resource Summary Report

Generated by [NIF](#) on Aug 31, 2026

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

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

Genomic Alteration: MCF sensitive|A/J|non-responder|a variant|mutation 1|Legionella; susceptibility 1|long|scaramanga|b-2 variant|myxovirus susceptibility 1|Duchenne modifier 1 susceptible|cleft lip 1|age related hearing loss 4|progressive muscular dystrophy|age related hearing loss 1|deficient

Catalog Number: JAX:000646

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: A/J

Record Creation Time: 20250513T053620+0000

Record Last Update: 20260829T044909+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: JAX Mice and Services

Usage and Citation Metrics

We found 42 mentions in open access literature.

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

Prateek GV, et al. (2026) Longitudinal analysis of body weight reveals homeostatic and adaptive traits linked to lifespan in diversity outbred mice. Nature communications, 17(1), 1689.

Antonides-Jensen N, et al. (2026) Histotripsy-initiated immune response synergizes with chemotherapy in a neuroblastoma murine model. bioRxiv : the preprint server for biology.

Foidart P, et al. (2026) Whole-genome doubling drives immune evasion by silencing antigen presentation. Cancer cell, 44(7), 1418.

Cirauqui C, et al. (2025) Interleukin-11 promotes lung adenocarcinoma tumorigenesis and immune evasion. Clinical and translational medicine, 15(7), e70374.

Stempinski PR, et al. (2025) A Cryptococcus neoformans polysaccharide conjugate vaccine made with filtered polysaccharide elicits protective immunity in mice. Fungal biology, 129(2), 101544.

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

Murray KE, et al. (2025) Sex and Genotype Affect Mouse Hippocampal Gene Expression in Response to Blast-Induced Traumatic Brain Injury. *Molecular neurobiology*, 62(8), 9980.

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

Swift SK, et al. (2024) A broadly applicable method for quantifying cardiomyocyte cell division identifies proliferative events following myocardial infarction. *Cell reports methods*, 4(9), 100860.

McAdams ZL, et al. (2024) Supplier-origin gut microbiomes affect host body weight and select autism-related behaviors. *Gut microbes*, 16(1), 2385524.

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.

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.

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

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.

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.

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

Clark FE, et al. (2024) An egg-sabotaging mechanism drives non-Mendelian transmission in mice. *Current biology : CB*, 34(17), 3845.

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

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.