

Resource Summary Report

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

Hc|Il3ra|Wnt9b|Bhr1|Ahr|Micr|B2m|Mx1|Ltbp4|Nrg3|mt-Tr|Bhr5|Naip5|Cox7a2l|Dysf|Cdh23|Cs|Rmcf

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

Genomic Alteration: deficient|mutation 1|cleft lip 1|A/J|b-2 variant|non-responder|a variant|myxovirus susceptibility 1|Duchenne modifier 1 susceptible|scaramanga|Legionella; susceptibility 1|long|progressive muscular

dystrophy|age related hearing loss 1|age related hearing loss 4|MCF sensitive

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: 20260725T044328+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 39 mentions in open access literature.

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

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.

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

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.

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.

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

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

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.

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.

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.

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

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

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

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.

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

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

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

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