

Resource Summary Report

Generated by [RRID](#) on Jul 29, 2026

[DBA/2J](#)

RRID:IMSR_JAX:000671

Type: Organism

Proper Citation

RRID:IMSR_JAX:000671

Organism Information

URL: <https://www.jax.org/strain/000671>

Proper Citation: RRID:IMSR_JAX:000671

Description: Mus musculus with name DBA/2J from IMSR.

Species: Mus musculus

Synonyms: DBA2. D2J. D2

Notes: gene symbol note: forebrain weight 1|CD5 antigen|trace amine-associated receptor 1|killer cell lectin-like receptor; subfamily D; member 1|latent transforming growth factor beta binding protein 4|audiogenic seizure prone 2|hemolytic complement|cadherin related 23 (otocadherin)|aryl-hydrocarbon receptor|glycoprotein (transmembrane) nmb|hemoglobin beta chain complex|annexin A6|G protein-coupled receptor 84|cytochrome c oxidase subunit 7A2 like|MX dynamin-like GTPase 1|forebrain weight 2|purinergic receptor P2X; ligand-gated ion channel; 7|nonagouti|beta-2 microglobulin|fascin actin-bundling protein 2|myosin VA|tyrosinase-related protein 1; inbred strain:

Fbrwt1|Cd5|Taar1|Klrd1|Ltbp4|Asp2|Hc|Cdh23|Ahr|Gpnmb|Hbb|Anxa6|Gpr84|Cox7a2|Mx1|Fbrwt2|F

Affected Gene: forebrain weight 1|CD5 antigen|trace amine-associated receptor 1|killer cell lectin-like receptor; subfamily D; member 1|latent transforming growth factor beta binding protein 4|audiogenic seizure prone 2|hemolytic complement|cadherin related 23 (otocadherin)|aryl-hydrocarbon receptor|glycoprotein (transmembrane) nmb|hemoglobin beta chain complex|annexin A6|G protein-coupled receptor 84|cytochrome c oxidase subunit 7A2 like|MX dynamin-like GTPase 1|forebrain weight 2|purinergic receptor P2X; ligand-gated ion channel; 7|nonagouti|beta-2 microglobulin|fascin actin-bundling protein 2|myosin VA|tyrosinase-related protein 1

Genomic Alteration: DBA/2J|a variant|mutation 1; Jackson|Duchenne modifier 1 susceptible|audiogenic seizure prone 2|deficient|age related hearing loss 1|d variant|iris pigment dispersion|d|rs26961431 SNP allele with the G variant|deletion|long|myxovirus

susceptibility 1|rs48804829 SNP allele with the T variant|nonagouti|age related hearing loss 18|dilute|iris stromal atrophy

Catalog Number: JAX:000671

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: DBA/2J

Record Creation Time: 20250513T053620+0000

Record Last Update: 20260725T044328+0000

Ratings and Alerts

No rating or validation information has been found for DBA/2J.

No alerts have been found for DBA/2J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 1090 mentions in open access literature.

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

Gallo Afflitto G, et al. (2026) Topical WIN 55 212-2 Confers Long-Term Intraocular Pressure-Independent Neuroprotection in the DBA/2J Mouse Model of Glaucoma. Ophthalmology science, 6(1), 100918.

Nguyen BV, et al. (2025) A domain-swapped CaMKII conformation facilitates linker-mediated allosteric regulation. Nature communications, 16(1), 8461.

Turovsky EA, et al. (2025) Therapeutic Effect of Selenium Nanoparticles, Sorafenib, and Selenium-Sorafenib Nanocomplex in the Lungs and Kidneys of Mice with TAA-Induced HCC. Biomolecules, 15(9).

Garretson A, et al. (2025) Benchmarking Genomic Variant Calling Tools in Inbred Mouse Strains: Recommendations and Considerations. bioRxiv : the preprint server for biology.

Rios SM, et al. (2025) Absence of TAAR1 function increases methamphetamine-induced excitability of dorsal raphe serotonin neurons and drives binge-level methamphetamine

intake. *Neuropsychopharmacology* : official publication of the American College of Neuropsychopharmacology, 50(7), 1136.

Gregory-Flores A, et al. (2025) A small molecule PKC?? inhibitor reduces hyperalgesia induced by paclitaxel or opioid withdrawal. *JCI insight*, 10(8).

Granet JA, et al. (2025) Muscle stem cells in Duchenne muscular dystrophy exhibit molecular impairments and altered cell fate trajectories impacting regenerative capacity. *Cell death & disease*, 16(1), 437.

Guennece BE, et al. (2025) Exploring Desmin as a Potential Modifier in Duchenne Muscular Dystrophy-Associated Cardiomyopathy. *Acta physiologica (Oxford, England)*, 241(12), e70117.

Oestereich MA, et al. (2025) Establishing standardized transthoracic echocardiography reference ranges for mouse models: insights into the impact of anesthesia, sex, and age. *Frontiers in cardiovascular medicine*, 12, 1695034.

MacNeil MA, et al. (2025) Mitochondrial-Targeted HDAP2 Preserves Retinal Ganglion Cells and Increases Pressure Tolerance in DBA/2J Mice. *Investigative ophthalmology & visual science*, 66(15), 66.

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

Kim D, et al. (2025) In Vivo Quantification of Anterior and Posterior Chamber Volumes in Mice: Implications for Aqueous Humor Dynamics. *Investigative ophthalmology & visual science*, 66(1), 18.

Casas E, et al. (2025) Genetic polymorphisms lead to major, locus-specific, variation in piRNA production in mouse. *The EMBO journal*, 44(14), 4104.

Zhang Z, et al. (2025) Gene therapies alleviate absence epilepsy associated with Scn2a deficiency in DBA/2J mice. *bioRxiv : the preprint server for biology*.

Hayashi Y, et al. (2025) Empagliflozin reduces liver fibrosis by restoring catechol-O-methyltransferase activity associated with magnesium levels. *Scientific reports*, 15(1), 27310.

Greene S, et al. (2025) A murine model lacking Lyst recapitulates Chediak-Higashi syndrome with an earlier-onset neurodegenerative phenotype. *Communications biology*, 8(1), 1064.

Ding M, et al. (2025) The hypervirulent Type-1/Type-17 phenotype of *Cryptococcus neoformans* clinical isolates is specific to A/J mice. *Infection and immunity*, 93(4), e0058524.

Rajan JRS, et al. (2025) Investigating Motor Coordination Using BXD Recombinant Inbred Mice to Model the Genetic Underpinnings of Developmental Coordination Disorder. *Genes, brain, and behavior*, 24(2), e70014.

Yamauchi S, et al. (2025) A new external jugular venipuncture technique for efficient vascular access that exploits a murine anatomical variation. PloS one, 20(9), e0329811.

Ouellette A, et al. (2025) Evaluation of hippocampal DLGAP2 overexpression on cognition, synaptic function, and dendritic spine structure in a translationally relevant AD mouse model. Alzheimer's & dementia : the journal of the Alzheimer's Association, 21(10), e70728.