

Resource Summary Report

Generated by [NIF](#) on Sep 2, 2026

CAST/EiJ

RRID:IMSR_JAX:000928

Type: Organism

Proper Citation

RRID:IMSR_JAX:000928

Organism Information

URL: <https://www.jax.org/strain/000928>

Proper Citation: RRID:IMSR_JAX:000928

Description: Mus musculus with name CAST/EiJ from IMSR.

Species: Mus musculus

Synonyms: Castaneus Eicher

Notes: gene symbol note: aryl-hydrocarbon receptor|2'-5' oligoadenylate synthetase 1B|cytochrome c oxidase subunit 7A2 like; wild-derived inbred strain|inbred strain: Ahr|Oas1b|Cox7a2l

Affected Gene: aryl-hydrocarbon receptor|2'-5' oligoadenylate synthetase 1B|cytochrome c oxidase subunit 7A2 like

Genomic Alteration: d variant|flavivirus resistance|long

Catalog Number: JAX:000928

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: CAST/EiJ

Record Creation Time: 20250513T053622+0000

Record Last Update: 20260829T044911+0000

Ratings and Alerts

No rating or validation information has been found for CAST/EiJ.

No alerts have been found for CAST/EiJ.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 131 mentions in open access literature.

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

Brann DH, et al. (2026) A spatial code governs olfactory receptor choice and aligns sensory maps in the nose and brain. *Cell*, 189(11), 3358.

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.

Xu F, et al. (2025) A new attenuated and highly immunogenic orthopoxvirus vaccine protects against mpox in mice and macaques. *NPJ vaccines*, 10(1), 134.

Zhao R, et al. (2025) Anti-M1R/B6R antibody characterization and bispecific design for enhanced orthopoxvirus protection. *EMBO molecular medicine*, 17(10), 2713.

Kobiyama K, et al. (2025) Immunological analysis of LC16m8 vaccine: preclinical and early clinical insights into mpox. *EBioMedicine*, 115, 105703.

Zhu L, et al. (2025) Tiantan vaccinia virus-based vaccine with promising safety provides sustained protection against mpox in non-human primates. *Nature communications*, 16(1), 7183.

Zhu L, et al. (2025) MPXV infection activates cGAS-STING signaling and IFN-I treatment reduces pathogenicity of mpox in CAST/EiJ mice and rhesus macaques. *Cell reports. Medicine*, 6(5), 102135.

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

Sierra I, et al. (2025) B cell stimulation changes the structure and higher-order organization of the inactive X chromosome. *Cell reports*, 44(3), 115351.

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.

- Trotman JB, et al. (2025) Isogenic comparison of Airn and Xist reveals core principles of Polycomb recruitment by lncRNAs. *Molecular cell*, 85(6), 1117.
- Pierpoint M, et al. (2025) Loss of function of Atrx recapitulates phenotypes of alternative lengthening of telomeres in a primary mouse model of sarcoma. *iScience*, 28(5), 112357.
- Liu Y, et al. (2025) Single-cell RNA-seq identifies protracted mouse germline X chromosome reactivation dynamics directed by a PRC2-dependent mechanism. *Developmental cell*, 60(9), 1321.
- 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.
- Rezaie N, et al. (2024) Identification of robust cellular programs using reproducible LDA that impact sex-specific disease progression in different genotypes of a mouse model of AD. *bioRxiv : the preprint server for biology*.
- Rebboah E, et al. (2024) The ENCODE mouse postnatal developmental time course identifies regulatory programs of cell types and cell states. *bioRxiv : the preprint server for biology*.
- Chen PB, et al. (2024) Complementation testing identifies genes mediating effects at quantitative trait loci underlying fear-related behavior. *Cell genomics*, 4(5), 100545.
- English J, et al. (2023) GPS2-mediated regulation of the adipocyte secretome modulates adipose tissue remodeling at the onset of diet-induced obesity. *Molecular metabolism*, 69, 101682.
- Lozano-Ureña A, et al. (2023) IGF2 interacts with the imprinted gene Cdkn1c to promote terminal differentiation of neural stem cells. *Development (Cambridge, England)*, 150(1).
- Janssen P, et al. (2023) The effect of background noise and its removal on the analysis of single-cell expression data. *Genome biology*, 24(1), 140.