

Resource Summary Report

Generated by [NIF](#) on Sep 6, 2026

C3H/HeJ

RRID:IMSR_JAX:000659

Type: Organism

Proper Citation

RRID:IMSR_JAX:000659

Organism Information

URL: <https://www.jax.org/strain/000659>

Proper Citation: RRID:IMSR_JAX:000659

Description: Mus musculus with name C3H/HeJ from IMSR.

Species: Mus musculus

Synonyms: C3. C3H/HeJ-Pde6b. C3H Heston

Notes: gene symbol note: toll-like receptor 4|glutamate receptor; ionotropic; AMPA4 (alpha 4)|beta-2 microglobulin|MX dynamin-like GTPase 1|cytochrome c oxidase subunit 7A2 like|phosphodiesterase 6B; cGMP; rod receptor; beta polypeptide|inversion; Chr 6; Jackson 1|aryl-hydrocarbon receptor|histamine receptor H1|hemoglobin beta chain complex|pecanex homolog 2|latent transforming growth factor beta binding protein 4|CD5 antigen; inbred strain:
Tlr4|Gria4|B2m|Mx1|Cox7a2l|Pde6b|In(6)1J|Ahr|Hrh1|Hbb|Pcnx2|Ltbp4|Cd5

Affected Gene: toll-like receptor 4|glutamate receptor; ionotropic; AMPA4 (alpha 4)|beta-2 microglobulin|MX dynamin-like GTPase 1|cytochrome c oxidase subunit 7A2 like|phosphodiesterase 6B; cGMP; rod receptor; beta polypeptide|inversion; Chr 6; Jackson 1|aryl-hydrocarbon receptor|histamine receptor H1|hemoglobin beta chain complex|pecanex homolog 2|latent transforming growth factor beta binding protein 4|CD5 antigen

Genomic Alteration: defective lipopolysaccharide response|spike wave discharge 1|a variant|myxovirus susceptibility 1|long|retinal degeneration 1|inversion; Chr 6; Jackson 1|b-2 variant|B pertussis induced histamine sensitization; resistant|d|C3H/HeJ|Duchenne modifier 1 susceptible

Catalog Number: JAX:000659

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: C3H/HeJ

Record Creation Time: 20250513T053620+0000

Record Last Update: 20260905T044357+0000

Ratings and Alerts

No rating or validation information has been found for C3H/HeJ.

No alerts have been found for C3H/HeJ.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 1240 mentions in open access literature.

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

Li F, et al. (2026) Spatial heterogeneity of MDSCs mediated by ANXA1-FPRs signaling drives immune suppression in OSCC progression. *Nature communications*, 17(1).

Brunet AA, et al. (2026) Early Rod Dysfunction Influences Cone Development in a Rhodopsin P23H Mouse Model of Retinitis Pigmentosa. *Pathophysiology : the official journal of the International Society for Pathophysiology*, 33(1).

Ahmad SS, et al. (2026) Peptidoglycan architecture dictates protein interactions, tissue tropism, and arthritis in the Lyme disease spirochete *Borrelia burgdorferi*. *PLoS pathogens*, 22(1), e1013849.

Zhu M, et al. (2026) Ruxolitinib reverses alopecia areata via a triple mechanism: JAK-STAT inhibition, localized oxidative stress attenuation and selective apoptosis modulation. *Journal of translational autoimmunity*, 12, 100367.

Moore SJ, et al. (2026) Acarbose improves cognitive function in a mouse model of normal aging but not Alzheimer's disease. *bioRxiv : the preprint server for biology*.

Vydyam P, et al. (2026) Evaluating acridones as novel therapeutics for human babesiosis. *Antimicrobial agents and chemotherapy*, 70(6), e0001626.

Senpuku K, et al. (2026) Comparative immunogenic and structural analysis of virus-like particle and inactivated whole-virion vaccines against enterovirus D68. *Molecular therapy*.

Nucleic acids, 37(2), 102957.

Birkaya B, et al. (2026) Characterization of Borrelia-Derived Extracellular Vesicles: Implications for Pathogenesis and Diagnostics. *Microorganisms*, 14(3).

Tyshkovskiy A, et al. (2026) Universal transcriptomic hallmarks of mammalian ageing and mortality. *Nature*, 654(8117), 173.

Neumann N, et al. (2026) Testing the capacity of humanized immune system mice to induce a protective antibody response against the Lyme disease pathogen. *Microbiology spectrum*, 14(5), e0380325.

Tomii K, et al. (2026) Squaric Acid Dibutylester Promotes Innate Immune-Driven Hair Growth with CD206+ Macrophage Accumulation in the Dermis. *JID innovations : skin science from molecules to population health*, 6(1), 100420.

McCarty M, et al. (2026) Develop a durable, memory-driven, CspZ-targeting Lyme disease vaccine by rationale adjuvant selection. *bioRxiv : the preprint server for biology*.

Potter CS, et al. (2026) Role of Aire and Notch4 allelic mutations in alopecia areata in C3H/HeJ mice. *JID innovations : skin science from molecules to population health*, 6(3), 100466.

Brunet AA, et al. (2026) Targeting AKT via SC79 for Photoreceptor Preservation in Retinitis Pigmentosa Mouse Models. *Biomedicines*, 14(1).

Bando K, et al. (2026) Zoledronate enhances lipopolysaccharide-induced inflammation via toll-like receptor 4 upregulation. *Journal of dental sciences*, 21(1), 184.

Kim H, et al. (2026) Exploring Host-driven Immunopathological Factors Developing Severe Tuberculosis: Insights from Comparative Mouse Models. *International journal of biological sciences*, 22(5), 2512.

Erickson S, et al. (2026) Environmentally driven immune imprinting protects against allergy. *Nature*, 650(8103), 987.

Beji S, et al. (2026) Thermoregulatory adaptations to cold in C3H/HeJ mice are independent of ADRB3 signaling. *Scientific reports*, 16(1).

Sloan K, et al. (2026) Genetic analysis of triplicated genes affecting sex-specific skeletal deficits in Down syndrome model mice. *G3 (Bethesda, Md.)*, 16(5).

Chari NS, et al. (2026) Local Delivery of miR-27a* Using Ultrasound-Targeted Microbubble Cavitation Inhibits Squamous Cell Carcinoma Growth. *Ultrasound in medicine & biology*, 52(2), 462.