

Resource Summary Report

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

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

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

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: 20260808T050823+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 [nidm-terms](#) .

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.

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.

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.

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.

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).

Anderson PN, et al. (2026) In vitro and in vivo endothelial interactions of Leptospira species are markers of virulence. PLoS neglected tropical diseases, 20(1), e0013939.