

Resource Summary Report

Generated by [kravitz2](#) on Sep 21, 2026

B6;129S1-Ezh2^{tm2Sho}/J

RRID:IMSR_JAX:022616

Type: Organism

Proper Citation

RRID:IMSR_JAX:022616

Organism Information

URL: <https://www.jax.org/strain/022616>

Proper Citation: RRID:IMSR_JAX:022616

Description: Mus musculus with name B6;129S1-Ezh2^{tm2Sho}/J from IMSR.

Species: Mus musculus

Synonyms: STOCK Ezh2/J

Notes: gene symbol note: enhancer of zeste 2 polycomb repressive complex 2 subunit;
mutant stock: Ezh2

Affected Gene: enhancer of zeste 2 polycomb repressive complex 2 subunit

Genomic Alteration: targeted mutation 2; Stuart Orkin

Catalog Number: JAX:022616

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6;129S1-Ezh2^{tm2Sho}/J

Record Creation Time: 20250513T053745+0000

Record Last Update: 20260919T054932+0000

Ratings and Alerts

No rating or validation information has been found for B6;129S1-Ezh2^{tm2Sho}/J.

No alerts have been found for B6;129S1-Ezh2^{tm2Sho}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 47 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Weerasopon K, et al. (2026) Loss of Ezh2 promotes M2-like macrophage polarization in hepatocellular carcinoma. *iScience*, 29(4), 115180.

Xiong Y, et al. (2026) Molecular and Chromatin Accessibility Programs Underlying Epithelial Injury and Impaired Regeneration in Neonatal Necrotizing Enterocolitis. *Cellular and molecular gastroenterology and hepatology*, 20(6), 101730.

Ammar H, et al. (2026) Enhancer of zeste homolog 2 (Ezh2) is required in mouse Isl1-expressing progenitors for proper development of cardiac and skeletal hindlimb structures. *Biology open*, 15(4).

Zhu H, et al. (2026) Endothelial-specific Ezh2 deficiency exacerbates blood-brain barrier dysfunction and neuroinflammation in sepsis-associated encephalopathy. *Journal of neuroinflammation*, 23(1).

Bjeije H, et al. (2026) Comparison with Ezh2 reveals the PRC2-dependent functions of Jarid2 in hematopoietic stem Cell lineage commitment. *Stem cell reports*, 21(3), 102793.

Zhu H, et al. (2025) EZH2-dependent myelination following sciatic nerve injury. *Neural regeneration research*, 20(8), 2382.

Bjeije H, et al. (2025) Functional Comparison to Ezh2 Reveals PRC2-Independent Functions of Jarid2 in Hematopoietic Stem Cell Lineage Commitment. *bioRxiv : the preprint server for biology*.

Bonfiglio CA, et al. (2025) Ezh2 Shapes T Cell Plasticity to Drive Atherosclerosis. *Circulation*, 151(19), 1391.

Rondeaux J, et al. (2023) Ezh2 emerges as an epigenetic checkpoint regulator during monocyte differentiation limiting cardiac dysfunction post-MI. *Nature communications*, 14(1), 4461.

Liu L, et al. (2023) Ezh2 promotes mammary tumor initiation through epigenetic regulation of the Wnt and mTORC1 signaling pathways. *Proceedings of the National Academy of Sciences of the United States of America*, 120(33), e2303010120.

Quezada LK, et al. (2023) Early transcriptional and epigenetic divergence of CD8+ T cells responding to acute versus chronic infection. *PLoS biology*, 21(1), e3001983.

Guo T, et al. (2022) KDM6B interacts with TFDP1 to activate P53 signaling in regulating mouse palatogenesis. *eLife*, 11.

Yu F, et al. (2022) Epigenetic controls of Sonic hedgehog guarantee fidelity of epithelial adult stem cells trajectory in regeneration. *Science advances*, 8(29), eabn4977.

Luo Y, et al. (2022) EZH2 restricts Tcf7 DNA methylation and promotes TFH differentiation during acute viral infection. *Frontiers in immunology*, 13, 942465.

Dhar S, et al. (2022) A tumor suppressor role for EZH2 in diffuse midline glioma pathogenesis. *Acta neuropathologica communications*, 10(1), 47.

Kong IY, et al. (2022) Epigenetic modulators of B cell fate identified through coupled phenotype-transcriptome analysis. *Cell death and differentiation*, 29(12), 2519.

Wang N, et al. (2022) Mapping brain gene coexpression in daytime transcriptomes unveils diurnal molecular networks and deciphers perturbation gene signatures. *Neuron*, 110(20), 3318.

Yu M, et al. (2021) Single-Cell Sequencing Reveals the Novel Role of Ezh2 in NK Cell Maturation and Function. *Frontiers in immunology*, 12, 724276.

Kitchen GB, et al. (2021) The histone methyltransferase Ezh2 restrains macrophage inflammatory responses. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 35(10), e21843.

Wu X, et al. (2021) Histone H3 methyltransferase Ezh2 promotes white adipocytes but inhibits brown and beige adipocyte differentiation in mice. *Biochimica et biophysica acta. Molecular and cell biology of lipids*, 1866(6), 158901.