

Resource Summary Report

Generated by [PRECISE-TBI](#) on Aug 2, 2026

B6.129P2-Lyz2^{tm1(cre)lfo/J}

RRID:IMSR_JAX:004781

Type: Organism

Proper Citation

RRID:IMSR_JAX:004781

Organism Information

URL: <https://www.jax.org/strain/004781>

Proper Citation: RRID:IMSR_JAX:004781

Description: Mus musculus with name B6.129P2-Lyz2^{tm1(cre)lfo/J} from IMSR.

Species: Mus musculus

Synonyms: B6.129-Lyzs/J. B6.129P2-Lyzs/J

Notes: gene symbol note: lysozyme 2|; mutant strain|congenic strain: Lyz2|

Affected Gene: lysozyme 2|

Genomic Alteration: targeted mutation 1; Irmgard Forster

Catalog Number: JAX:004781

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129P2-Lyz2^{tm1(cre)lfo/J}

Record Creation Time: 20250513T053646+0000

Record Last Update: 20260801T050349+0000

Ratings and Alerts

- Used for humanized mouse by the Human Islet Research Network community.
Contact(s): [Bobbie-Jo Webb-Robertson](#), [Bernhard Maier](#), [Wenting Wu](#), [Sarah Tersey](#)
- Human Islets Research Network <https://hirnetwork.org/>

No alerts have been found for B6.129P2-Lyz2^{tm1(cre)lfo/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 356 mentions in open access literature.

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

Feng J, et al. (2026) The electrophilic metabolite of kynurenine, kynurenine-CKA, requires C151 in Keap1 to derepress Nrf2. Redox biology, 90, 104009.

Liu J, et al. (2026) Extracellular GPX4 impairs antitumor immunity via dendritic ZP3 receptors. Cell.

Peng Y, et al. (2025) Tolerance to non-inherited maternal antigen is sustained by LysM+ CD11c+ maternal microchimeric cells. Immunity, 58(9), 2176.

He Y, et al. (2025) Eph Receptors Activate Myeloid Checkpoint Receptor LILRB5 to Support Tumor Development. Cancer immunology research, 13(6), 821.

Glogowska E, et al. (2025) Potentiation of macrophage Piezo1 by atherogenic 7-ketocholesterol. Cell reports, 44(4), 115542.

Bleve A, et al. (2025) ROR γ Bridges Cancer-Driven Lipid Dysmetabolism and Myeloid Immunosuppression. Cancer discovery, 15(7), 1505.

Jiang Y, et al. (2025) Phosphatase PHLPP1 is an alveolar-macrophage-intrinsic transcriptional checkpoint controlling pulmonary fibrosis. Cell reports, 44(3), 115399.

Mehrabani-Tabari AA, et al. (2025) Inhibition of autophagy-lysosomal function exacerbates microglial and monocyte lipid metabolism reprogramming and dysfunction after brain injury. bioRxiv : the preprint server for biology.

Tripathi GM, et al. (2025) Synaptic-like coupling of macrophages to myofibers regulates muscle repair. Current biology : CB, 35(24), 6010.

Liu X, et al. (2025) Discovery, delineation, and therapeutic targeting of a hyper-translation pathway driving cytokine release syndrome. Cell reports. Medicine, 102531.

Toller-Kawahisa JE, et al. (2025) Metabolic reprogramming of macrophages by PKM2 promotes IL-10 production via adenosine. Cell reports, 44(1), 115172.

Lai YG, et al. (2025) cGAS and STING in Host Myeloid Cells Are Essential for Effective Cyclophosphamide Treatment of Advanced Breast Cancer. *Cancers*, 17(7).

Wu Z, et al. (2025) Control of Inflammatory Response by Tissue Microenvironment. *bioRxiv : the preprint server for biology*.

Shimizu K, et al. (2025) Distinct TAM subset with cross-dressing capability determines the bifurcation of tumor immunity. *Cell reports*, 44(6), 115800.

Salih MM, et al. (2025) Myeloid-specific HNRNPA2B1 deficiency disrupts macrophage function and in vivo responses. *Journal of immunology (Baltimore, Md. : 1950)*, 214(8), 2041.

Sarad K, et al. (2025) Endothelial Nrf2 deficiency promotes atherosclerotic lesion formation by shaping a proinflammatory niche. *Life sciences*, 375, 123725.

Zhu J, et al. (2025) Role of Macrophage PARP1 in the Regulation of Crosstalk between Adipose Immune Cells and Adipocytes during Diet-induced Obesity. *bioRxiv : the preprint server for biology*.

Kazzaz SA, et al. (2025) The aryl hydrocarbon receptor interacting protein suppresses RNA virus-induced type I IFN and IL-6 in mouse macrophages. *bioRxiv : the preprint server for biology*.

McCright SJ, et al. (2025) Dietary saturated fatty acids promote lung myeloid cell inflammasome activation and IL-1 β -mediated inflammation in mice and humans. *Science translational medicine*, 17(813), eadp5653.

Srivastava R, et al. (2025) Redefined Strategies to generate Conditional miR-141/200c miRNA cluster Knockout mice to eliminate confounding neo cassettes. *bioRxiv : the preprint server for biology*.