

Resource Summary Report

Generated by [NIF](#) on Aug 29, 2026

B6.129X1-Mpo^{tm1Lus}/J

RRID:IMSR_JAX:004265

Type: Organism

Proper Citation

RRID:IMSR_JAX:004265

Organism Information

URL: <https://www.jax.org/strain/004265>

Proper Citation: RRID:IMSR_JAX:004265

Description: Mus musculus with name B6.129X1-Mpo^{tm1Lus}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: myeloperoxidase; mutant strain|congenic strain: Mpo

Affected Gene: myeloperoxidase

Genomic Alteration: targeted mutation 1; Aldons J Lusi

Catalog Number: JAX:004265

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129X1-Mpo^{tm1Lus}/J

Record Creation Time: 20250513T053643+0000

Record Last Update: 20260829T044934+0000

Ratings and Alerts

No rating or validation information has been found for B6.129X1-Mpo^{tm1Lus}/J.

No alerts have been found for B6.129X1-Mpo^{tm1Lus}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 17 mentions in open access literature.

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

Hof A, et al. (2025) Myeloperoxidase impacts vascular function by altering perivascular adipocytes' secretome and phenotype in obesity. *Cell reports. Medicine*, 6(5), 102087.

Zheng R, et al. (2024) Remodeling of the endothelial cell transcriptional program via paracrine and DNA-binding activities of MPO. *iScience*, 27(2), 108898.

Oneissi M, et al. (2023) Host-derived reactive oxygen species trigger activation of the *Candida albicans* transcription regulator Rtg1/3. *PLoS pathogens*, 19(9), e1011692.

Ioannou M, et al. (2022) Microbe capture by splenic macrophages triggers sepsis via T cell-death-dependent neutrophil lifespan shortening. *Nature communications*, 13(1), 4658.

An XN, et al. (2022) CD206+CD68+ mono-macrophages and serum soluble CD206 level are increased in antineutrophil cytoplasmic antibodies associated glomerulonephritis. *BMC immunology*, 23(1), 55.

Ali M, et al. (2022) Myeloperoxidase exerts anti-tumor activity in glioma after radiotherapy. *Neoplasia (New York, N.Y.)*, 26, 100779.

Mehling R, et al. (2021) Immunomodulatory role of reactive oxygen species and nitrogen species during T cell-driven neutrophil-enriched acute and chronic cutaneous delayed-type hypersensitivity reactions. *Theranostics*, 11(2), 470.

Mathew AV, et al. (2021) Deletion of bone marrow myeloperoxidase attenuates chronic kidney disease accelerated atherosclerosis. *The Journal of biological chemistry*, 296, 100120.

Rehring JF, et al. (2021) Released Myeloperoxidase Attenuates Neutrophil Migration and Accumulation in Inflamed Tissue. *Frontiers in immunology*, 12, 654259.

Strzepa A, et al. (2020) Neutrophil-Derived Myeloperoxidase Facilitates Both the Induction and Elicitation Phases of Contact Hypersensitivity. *Frontiers in immunology*, 11, 608871.

Goeritzer M, et al. (2020) Myeloperoxidase and Septic Conditions Disrupt Sphingolipid Homeostasis in Murine Brain Capillaries In Vivo and Immortalized Human Brain Endothelial Cells In Vitro. *International journal of molecular sciences*, 21(3).

Haskamp S, et al. (2020) Myeloperoxidase Modulates Inflammation in Generalized Pustular Psoriasis and Additional Rare Pustular Skin Diseases. *American journal of*

human genetics, 107(3), 527.

Kovacs SB, et al. (2020) Neutrophil Caspase-11 Is Essential to Defend against a Cytosol-Invasive Bacterium. *Cell reports*, 32(4), 107967.

Warnatsch A, et al. (2017) Reactive Oxygen Species Localization Programs Inflammation to Clear Microbes of Different Size. *Immunity*, 46(3), 421.

Reber LL, et al. (2017) Neutrophil myeloperoxidase diminishes the toxic effects and mortality induced by lipopolysaccharide. *The Journal of experimental medicine*, 214(5), 1249.

Ellen A, et al. (2013) Myeloperoxidase-derived oxidants induce blood-brain barrier dysfunction in vitro and in vivo. *PloS one*, 8(5), e64034.

Chang CY, et al. (2013) Resveratrol confers protection against rotenone-induced neurotoxicity by modulating myeloperoxidase levels in glial cells. *PloS one*, 8(4), e60654.