Resource Summary Report

Generated by RRID on Jul 30, 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 Lusis

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: 20260725T044353+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 RRID .

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.

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.

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.

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

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.

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.

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.

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

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