

Resource Summary Report

Generated by PRECISE-TBI on Aug 1, 2026

MRL/MpJ

RRID:IMSR_JAX:000486

Type: Organism

Proper Citation

RRID:IMSR_JAX:000486

Organism Information

URL: <https://www.jax.org/strain/000486>

Proper Citation: RRID:IMSR_JAX:000486

Description: Mus musculus with name MRL/MpJ from IMSR.

Species: Mus musculus

Synonyms: Murphy Roths Large

Notes: gene symbol note: latent transforming growth factor beta binding protein 4|interleukin 2|G protein-coupled receptor 84; inbred strain: Ltbp4|Il2|Gpr84

Affected Gene: latent transforming growth factor beta binding protein 4|interleukin 2|G protein-coupled receptor 84

Genomic Alteration: Duchenne modifier 1 resistant|mutation 1|deletion

Catalog Number: JAX:000486

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: MRL/MpJ

Record Creation Time: 20250513T053618+0000

Record Last Update: 20260801T050323+0000

Ratings and Alerts

No rating or validation information has been found for MRL/MpJ.

No alerts have been found for MRL/MpJ.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 96 mentions in open access literature.

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

Liu YJ, et al. (2025) Exosomes derived let-7f-5p is a potential biomarker of SLE with anti-inflammatory function. *Non-coding RNA research*, 12, 116.

Chen J, et al. (2025) Atg5 deficiency in basophils improves metabolism in lupus mice by regulating gut microbiota dysbiosis. *Cell communication and signaling : CCS*, 23(1), 40.

Minaga K, et al. (2025) Gut Microbiota Involved in the Immunopathogenesis of Autoimmune Pancreatitis. *Gut and liver*, 19(2), 171.

Fang X, et al. (2025) Systemic Lupus Erythematosus Exacerbates Hip Arthritis by Promoting Chondrocyte Pyroptosis in the Femoral Head via Activating the NF- κ B Pathway. *Journal of cellular and molecular medicine*, 29(7), e70531.

Zhao Y, et al. (2025) Aurora kinase B inhibitor AZD1152: repurposing for treatment of lupus nephritis driven by the results of clinical trials. *EBioMedicine*, 112, 105553.

Lao Z, et al. (2025) Vertebral Osteoporosis in Systemic Lupus Erythematosus: A Possible Involvement of Inflammation-Related Osteoblast Ferroptosis. *Journal of inflammation research*, 18, 5587.

Song YS, et al. (2025) Rebamipide Attenuates Lupus Nephritis by Enhancing Antioxidative Defense in Podocytes: Evidence from a Lupus-Prone Mouse Model. *International journal of molecular sciences*, 26(12).

Ma Y, et al. (2025) Regulation of phosphatase and tensin homolog by complement component 5a (C5a) and its receptor (C5aR1) in lupus nephritis: A novel therapeutic target. *Journal of cell communication and signaling*, 19(4), e70055.

Ren W, et al. (2025) A tandem repeat atlas for the genome of inbred mouse strains: A genetic variation resource. *iScience*, 28(11), 113703.

Agrifoglio O, et al. (2024) Dexamethasone's Clinical Efficacy in Experimental Autoimmune Pancreatitis Correlates with a Unique Transcriptomic Signature, Whilst Kinase Inhibitors Are Not Effective. *Biomedicines*, 12(11).

Hara A, et al. (2024) A positive cytokine/chemokine feedback loop establishes plasmacytoid DC-driven autoimmune pancreatitis in IgG4-related disease. *JCI insight*, 9(20).

Lao Z, et al. (2024) The Onset of Systemic Lupus Erythematosus Triggers Nucleus Pulposus Cell Pyroptosis to Exacerbate Intervertebral Disc Degeneration. *Journal of inflammation research*, 17, 7705.

Garcia SJ, et al. (2024) Lipocalin-2 drives neuropsychiatric and cutaneous disease in MRL/lpr mice. *Frontiers in immunology*, 15, 1466868.

Gordon RA, et al. (2024) NADPH oxidase in B cells and macrophages protects against murine lupus by regulation of TLR7. *JCI insight*, 9(16).

Song Z, et al. (2024) Reciprocal regulation of SIRT1 and AMPK by Ginsenoside compound K impedes the conversion from plasma cells to mitigate for podocyte injury in MRL/lpr mice in a B cell-specific manner. *Journal of ginseng research*, 48(2), 190.

Wang L, et al. (2024) A rationally designed CD19 monoclonal antibody-triptolide conjugate for the treatment of systemic lupus erythematosus. *Acta pharmaceutica Sinica. B*, 14(10), 4560.

Fu JY, et al. (2024) Lysine acetyltransferase 6A maintains CD4⁺ T cell response via epigenetic reprogramming of glucose metabolism in autoimmunity. *Cell metabolism*, 36(3), 557.

Gupta Y, et al. (2023) Impact of diet and host genetics on the murine intestinal mycobiome. *Nature communications*, 14(1), 834.

Gao X, et al. (2023) MRL/MpJ Mice Resist to Age-Related and Long-Term Ovariectomy-Induced Bone Loss: Implications for Bone Regeneration and Repair. *International journal of molecular sciences*, 24(3).

Ma Q, et al. (2023) Honokiol suppresses the aberrant interactions between renal resident macrophages and tubular epithelial cells in lupus nephritis through the NLRP3/IL-33/ST2 axis. *Cell death & disease*, 14(3), 174.