

Resource Summary Report

Generated by [NIF](#) on Aug 30, 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: 20260829T044907+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 108 mentions in open access literature.

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

Cheng C, et al. (2026) MiR-1290 in natural killer cell derived extracellular vesicles: a pathogenic mediator of lupus nephritis and therapeutic target for th17 regulation. Journal of nanobiotechnology, 24(1).

Li L, et al. (2026) Single-Chain Anti-IL-1? Antibody Carried by Outer Membrane Vesicles of Bacteroides fragilis Alleviates Tubular Inflammation in Chronic Kidney Disease. Journal of extracellular vesicles, 15(2), e70234.

Tang J, et al. (2026) Bifidobacterium Infantis Promotes FOSL1-Mediated Transcriptional Repression of VDR to Accelerate Autoimmune Pancreatitis Progression Through Activation of Oxidative Stress. Inflammation, 49(1), 61.

Wu Y, et al. (2026) Bitter gourd peptides (BG) alleviate lupus progression in mice through regulation of miR-146a/BRD4 axis in macrophages. Frontiers in immunology, 17, 1666212.

Ding Z, et al. (2026) The TWEAK-HOIP-HuR Axis: A Novel Mechanism of AMPK Inactivation and Metabolic Reprogramming in Lupus Nephritis Mesangial Cells Hyperproliferation. Mediators of inflammation, 2026, 4149395.

Feng Y, et al. (2026) Gut metabolite indole-3-acetic acid aggravates neuropsychiatric lupus via the AHR/STAT3 pathway in microglia. Communications biology, 9(1), 281.

Zhang Y, et al. (2026) BTK-Inhibitor Loaded Polymeric Nanoparticles Alleviate Systemic Lupus Erythematosus by Targeting Elimination of Autoreactive BAFFRhigh B Cells. International journal of molecular sciences, 27(2).

Chen PL, et al. (2026) Dual-mechanistic regulation of podocyte pyroptosis in lupus nephritis by the AP-1 complex: transcriptional activation of NLRP3 and lactate-mediated ubiquitination inhibition. Cell communication and signaling : CCS, 24(1).

Caldwell BA, et al. (2026) Monocyte exhaustion associated with systemic lupus erythematosus. Autoimmunity, 59(1), 2674057.

Xu Y, et al. (2026) Ultra-precision deconvolution of spatial transcriptomics decodes immune heterogeneity and fate-defining programs in tissues. *Nature communications*, 17(1).

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.

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.

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).

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.

Cheng L, et al. (2025) Hyperoside ameliorates lupus nephritis by suppressing AKT1-mediated PANoptosis in podocytes: integrating network pharmacology and experimental validation. *Frontiers in pharmacology*, 16, 1726254.

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.

Zeng Y, et al. (2025) Long non-coding RNA NEAT1 mediated lupus nephritis induced podocytes pyroptosis through DNMT1-STING axis. *Renal failure*, 47(1), 2595372.

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.

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