

Resource Summary Report

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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 [nidm-terms](#) .

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 BAFFR^{high} 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.

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).

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.

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.

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.

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.

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