

Resource Summary Report

Generated by [PRECISE-TBI](#) on Jul 29, 2026

MRL/MpJ-Fas^{lpr}/J

RRID:IMSR_JAX:000485

Type: Organism

Proper Citation

RRID:IMSR_JAX:000485

Organism Information

URL: <https://www.jax.org/strain/000485>

Proper Citation: RRID:IMSR_JAX:000485

Description: Mus musculus with name MRL/MpJ-Fas^{lpr}/J from IMSR.

Species: Mus musculus

Synonyms: MRL/MpJ-Tnfrsf6/J

Notes: gene symbol note: Fas cell surface death receptor; mutant strain: Fas

Affected Gene: Fas cell surface death receptor

Genomic Alteration: lymphoproliferation

Catalog Number: JAX:000485

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: MRL/MpJ-Fas^{lpr}/J

Record Creation Time: 20250513T053618+0000

Record Last Update: 20260725T044327+0000

Ratings and Alerts

No rating or validation information has been found for MRL/MpJ-Fas^{lpr}/J.

Warning: Warning. Researchers have noted that this genotype does not sufficiently model human type 1 diabetes mellitus.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 63 mentions in open access literature.

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

Han L, et al. (2025) Increased neutrophil senescence is associated with impaired immunosuppressive activity in systemic lupus erythematosus. *Acta biochimica et biophysica Sinica*, 57(11), 1824.

TenBarge EG, et al. (2025) A TLR7/9-IFN γ -LDHB axis drives vital NET release and compromises antibacterial defense in lupus. *bioRxiv : the preprint server for biology*.

Diaz M, et al. (2025) SARS-CoV-2 spike peptide analysis reveals a highly conserved region that elicits potentially pathogenic autoantibodies: implications to pan-coronavirus vaccine development. *Frontiers in immunology*, 16, 1488388.

Pan W, et al. (2024) The PP2A regulatory subunit PPP2R2A controls NAD⁺ biosynthesis to regulate T cell subset differentiation in systemic autoimmunity. *Cell reports*, 43(7), 114379.

Yamaguchi J, et al. (2024) PIK3CA inhibition in models of proliferative glomerulonephritis and lupus nephritis. *The Journal of clinical investigation*, 134(15).

Qian B, et al. (2024) Podocyte SIRP γ reduction aggravates lupus nephritis via promoting T cell inflammatory responses. *Cell reports*, 43(5), 114249.

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.

Hodgson R, et al. (2023) Prolidase Deficiency Causes Spontaneous T Cell Activation and Lupus-like Autoimmunity. *Journal of immunology (Baltimore, Md. : 1950)*, 210(5), 547.

Little AJ, et al. (2023) HIF-1 regulates pathogenic cytotoxic T cells in lupus skin disease. *JCI insight*, 8(16).

Gon Y, et al. (2023) Increased number of T cells and exacerbated inflammatory pathophysiology in a human IgG4 knock-in MRL/lpr mouse model. *PloS one*, 18(2), e0279389.

Ma K, et al. (2023) B1-cell-produced anti-phosphatidylserine antibodies contribute to lupus nephritis development via TLR-mediated Syk activation. *Cellular & molecular immunology*, 20(8), 881.

Mok MY, et al. (2023) IL-33 ameliorates murine systemic lupus erythematosus and is associated with induction of M2 macrophage polarisation and regulatory T cells. *Journal of innate immunity*, 15(1), 485.

Wu Y, et al. (2023) Osteoclast-derived apoptotic bodies inhibit naive CD8+ T cell activation via Siglec15, promoting breast cancer secondary metastasis. *Cell reports. Medicine*, 4(9), 101165.

Sundberg JP, et al. (2022) Witch Nails (Krt90whnl): A spontaneous mouse mutation affecting nail growth and development. *PloS one*, 17(11), e0277284.

Kasselman LJ, et al. (2022) Cognitive changes mediated by adenosine receptor blockade in a resveratrol-treated atherosclerosis-prone lupus mouse model. *Journal of traditional and complementary medicine*, 12(5), 447.

Levack RC, et al. (2022) Adenosine receptor 2a agonists target mouse CD11c+T-bet+ B cells in infection and autoimmunity. *Nature communications*, 13(1), 452.

Chen XC, et al. (2022) Metformin improves renal injury of MRL/lpr lupus-prone mice via the AMPK/STAT3 pathway. *Lupus science & medicine*, 9(1).

Rizzello C, et al. (2022) Intracellular osteopontin protects from autoimmunity-driven lymphoma development inhibiting TLR9-MYD88-STAT3 signaling. *Molecular cancer*, 21(1), 215.

Zacks DN, et al. (2022) Cell Death in AMD: The Rationale for Targeting Fas. *Journal of clinical medicine*, 11(3).

Olson LB, et al. (2022) Mixed-surface polyamidoamine polymer variants retain nucleic acid-scavenger ability with reduced toxicity. *iScience*, 25(12), 105542.