

Resource Summary Report

Generated by [NIF](#) on Aug 27, 2026

STOCK *Lyz2*^{tm1(cre/ERT2)Grtn/J}

RRID:IMSR_JAX:031674

Type: Organism

Proper Citation

RRID:IMSR_JAX:031674

Organism Information

URL: <https://www.jax.org/strain/031674>

Proper Citation: RRID:IMSR_JAX:031674

Description: Mus musculus with name STOCK *Lyz2*^{tm1(cre/ERT2)Grtn/J} from IMSR.

Species: Mus musculus

Synonyms: FVB.129P2(Cg)-*Lyz2*/J

Notes: gene symbol note: Cre recombinase and estrogen receptor 1 (human) fusion gene|lysozyme 2; mutant stock: cre/ERT2|*Lyz2*

Affected Gene: Cre recombinase and estrogen receptor 1 (human) fusion gene|lysozyme 2

Genomic Alteration: targeted mutation 1; Florian R Greten

Catalog Number: JAX:031674

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: STOCK *Lyz2*^{tm1(cre/ERT2)Grtn/J}

Record Creation Time: 20250513T053824+0000

Record Last Update: 20260815T050736+0000

Ratings and Alerts

No rating or validation information has been found for STOCK Lyz2^{tm1(cre/ERT2)Grtn/J}.

No alerts have been found for STOCK Lyz2^{tm1(cre/ERT2)Grtn/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 216 mentions in open access literature.

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

Feng Z, et al. (2026) Tmem110 regulates the conformation of TRPML1 to maintain endolysosomal homeostasis and prevent mitochondrial DNA leakage and pathological self-DNA processing. Nature communications, 17(1), 1678.

Wang L, et al. (2026) Sec8: a novel positive regulator of RIG-I in anti-RNA viral defense. Cell death & disease, 17(1), 165.

Wang J, et al. (2026) Targeting macrophage-derived SPP1 enhances CD8 T cell infiltration via ROS-DNA fragment/cGAS-STING/STAT1-mediated CXCL9/10 in tumor microenvironment. Journal for immunotherapy of cancer, 14(1).

Hildebrand CB, et al. (2026) Telomere damage-mediated senescence in alveolar epithelial type II cells but not in macrophages aggravates inflammation in acute lung injury. Respiratory research, 27(1).

Tan X, et al. (2026) CD1d functions as a ligand for PIRA2 to drive macrophage activation in nonalcoholic fatty liver disease. Cell death & disease, 17(1).

Wang X, et al. (2026) ATG16L1 Regulates Reparative Function of Peritoneal Macrophages During Acute Drug-induced Liver Injury. Cellular and molecular gastroenterology and hepatology, 20(2), 101674.

Zhang L, et al. (2026) Macrophage Nogo-B Drives Liver Fibrosis. Cellular and molecular gastroenterology and hepatology, 20(1), 101622.

Yang X, et al. (2026) Long-term high-protein diet intake accelerates adipocyte senescence through macrophage CD38-mediated NAD⁺ depletion. Molecular metabolism, 103, 102306.

Hu S, et al. (2026) MAP3K3 Contributes to Myocardial Ischemia/Reperfusion Injury by Promoting Myeloid Cell Diapedesis through TAL1/JAM-A Pathway. Theranostics, 16(4), 1959.

Lee DD, et al. (2026) The redundant protein synthesis gene Aimp1 challenges the canonical inverse relationship between translation and autophagy. *Communications biology*, 9(1).

Zhang W, et al. (2026) LGMN+ macrophage promotes the formation of a tumor-supportive microenvironment in gastric cancer. *Frontiers in immunology*, 17, 1810794.

Mao R, et al. (2026) RNA helicase DDX6 governs ASC speck formation in P-bodies and the transition to stress granules via phase separation during inflammasome activation. *Cell discovery*, 12(1).

Wang M, et al. (2026) Moonlighting cytosolic function of ACAD9: suppression of TRAF6-mediated osteoclastogenesis and protection against osteoporosis. *Cell death & disease*, 17(1).

Zhang X, et al. (2026) Reactivating exhausted tumor-infiltrating T cells by a bispecific DC-T cell engager in mice. *Nature communications*, 17(1).

Zan D, et al. (2026) Effect of reticulocalbin 3 on monocyte-to-macrophage differentiation in sepsis through modulating autophagy. *Chinese medical journal*, 139(11), 1674.

Wang Q, et al. (2026) Macrophage μ -opioid receptor inhibits hypoxic pulmonary hypertension progression and right heart dysfunction via an SCD1-dependent anti-inflammatory response. *Genes & diseases*, 13(2), 101604.

Xu J, et al. (2026) PINK1/Parkin promotes liver regeneration via Sigma-1 ubiquitination to inhibit ER-Mitochondrial calcium transfer. *Theranostics*, 16(3), 1410.

Lin Y, et al. (2026) Macrophage Nrf1/NFE2L1-Foxo1 axis controls liver fibrosis by modulation of mitochondrial reprogramming. *Theranostics*, 16(5), 2269.

Liu J, et al. (2026) Macrophage MERTK restrains GRAMD1A-driven mitochondrial oxysterol trafficking to limit colitis. *Redox biology*, 93, 104174.

He Y, et al. (2026) ELK1 promotes the progress of myeloid leukemia by hindering the differentiation of neutrophils. *Experimental hematology & oncology*, 15(1), 9.