

Resource Summary Report

Generated by [NIF](#) on Sep 11, 2026

STOCK Gpx4^{tm1.1Qra/J}

RRID:IMSR_JAX:027964

Type: Organism

Proper Citation

RRID:IMSR_JAX:027964

Organism Information

URL: <https://www.jax.org/strain/027964>

Proper Citation: RRID:IMSR_JAX:027964

Description: Mus musculus with name STOCK Gpx4^{tm1.1Qra/J} from IMSR.

Species: Mus musculus

Notes: gene symbol note: glutathione peroxidase 4; mutant stock: Gpx4

Affected Gene: glutathione peroxidase 4

Genomic Alteration: targeted mutation 1.1; Qitao Ran

Catalog Number: JAX:027964

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: STOCK Gpx4^{tm1.1Qra/J}

Record Creation Time: 20250513T053802+0000

Record Last Update: 20260905T044540+0000

Ratings and Alerts

No rating or validation information has been found for STOCK Gpx4^{tm1.1Qra/J}.

No alerts have been found for STOCK Gpx4^{tm1.1Qra/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 7 mentions in open access literature.

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

Liu J, et al. (2026) Extracellular GPX4 impairs antitumor immunity via dendritic ZP3 receptors. Cell.

Zhang Z, et al. (2026) Ferroptosis susceptibility in hippocampal neural precursor cells influences neurogenesis and memory across aging. Cell stem cell, 33(6), 1031.

Hayward MK, et al. (2026) Tissue tension fosters macrophage-driven lipid peroxidation-induced DNA damage. Cancer cell, 44(6), 1255.

Wientjens C, et al. (2025) Tolerance to ferroptosis facilitates lipid metabolism and pathogenic type 2 immunity in allergic airway inflammation. Immunity.

Yan J, et al. (2024) Inherent preference for polyunsaturated fatty acids instigates ferroptosis of Treg cells that aggravates high-fat-diet-related colitis. Cell reports, 43(8), 114636.

Ide S, et al. (2022) Sex differences in resilience to ferroptosis underlie sexual dimorphism in kidney injury and repair. Cell reports, 41(6), 111610.

Xu C, et al. (2021) The glutathione peroxidase Gpx4 prevents lipid peroxidation and ferroptosis to sustain Treg cell activation and suppression of antitumor immunity. Cell reports, 35(11), 109235.