

# Resource Summary Report

Generated by [dkNET](#) on Aug 10, 2026

## STOCK Gpx4<sup>tm1.1Qra/J</sup>

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<sup>tm1.1Qra/J</sup> 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<sup>tm1.1Qra/J</sup>

**Record Creation Time:** 20250513T053802+0000

**Record Last Update:** 20260808T051002+0000

### Ratings and Alerts

No rating or validation information has been found for STOCK Gpx4<sup>tm1.1Qra/J</sup>.

No alerts have been found for STOCK Gpx4<sup>tm1.1Qra/J</sup>.

## 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 [dkNET](#) .

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.