

# Resource Summary Report

Generated by T1D on Sep 15, 2026

## B6.129S4(D2)-Casp4<sup>tm1Yuan</sup>/J

RRID:IMSR\_JAX:024698

Type: Organism

### Proper Citation

RRID:IMSR\_JAX:024698

### Organism Information

**URL:** <https://www.jax.org/strain/024698>

**Proper Citation:** RRID:IMSR\_JAX:024698

**Description:** Mus musculus with name B6.129S4(D2)-Casp4<sup>tm1Yuan</sup>/J from IMSR.

**Species:** Mus musculus

**Synonyms:** STOCK Casp4/J

**Notes:** gene symbol note: caspase 4; apoptosis-related cysteine peptidase; mutant strain|congenic strain: Casp4

**Affected Gene:** caspase 4; apoptosis-related cysteine peptidase

**Genomic Alteration:** targeted mutation 1; Junying Yuan

**Catalog Number:** JAX:024698

**Database:** JAX Mice and Services

**Database Abbreviation:** JAX

**Availability:** sperm

**Organism Name:** B6.129S4(D2)-Casp4<sup>tm1Yuan</sup>/J

**Record Creation Time:** 20250513T053751+0000

**Record Last Update:** 20260912T060534+0000

### Ratings and Alerts

No rating or validation information has been found for B6.129S4(D2)-Casp4<sup>tm1Yuan</sup>/J.

No alerts have been found for B6.129S4(D2)-Casp4<sup>tm1Yuan/J</sup>.

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## Data and Source Information

**Source:** [Integrated Animals](#)

**Source Database:** JAX Mice and Services

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## Usage and Citation Metrics

We found 9 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [T1D](#).

Chan FHM, et al. (2025) Plasticity of cell death pathways ensures GSDMD activation during *Yersinia pseudotuberculosis* infection. *Cell reports*, 44(1), 115216.

Pizzuto M, et al. (2025) Cardiolipin inhibits the non-canonical inflammasome by preventing LPS binding to caspase-4/11. *The EMBO journal*, 44(16), 4419.

Winsor NJ, et al. (2025) Cross-kingdom-mediated detection of intestinal protozoa through NLRP6. *Cell host & microbe*, 33(3), 388.

Yeap HW, et al. (2025) A bacterial network of T3SS effectors counteracts host pro-inflammatory responses and cell death to promote infection. *The EMBO journal*, 44(9), 2424.

Ma Y, et al. (2023) Cytosolic LPS-induced caspase-11 oligomerization and activation is regulated by extended synaptotagmin 1. *Cell reports*, 42(7), 112726.

Gao J, et al. (2019) The reduction of XIAP is associated with inflammasome activation in RPE: implications for AMD pathogenesis. *Journal of neuroinflammation*, 16(1), 171.

Pronin A, et al. (2019) Inflammasome Activation Induces Pyroptosis in the Retina Exposed to Ocular Hypertension Injury. *Frontiers in molecular neuroscience*, 12, 36.

Dvorianchikova G, et al. (2018) Pannexin 1 sustains the electrophysiological responsiveness of retinal ganglion cells. *Scientific reports*, 8(1), 5797.

Zanoni I, et al. (2017) By Capturing Inflammatory Lipids Released from Dying Cells, the Receptor CD14 Induces Inflammasome-Dependent Phagocyte Hyperactivation. *Immunity*, 47(4), 697.