

Resource Summary Report

Generated by SPARC SAWG on Aug 29, 2026

NOD.129S2(B6)-Casp1^{tm1Sesh} Casp4/LtJ

RRID:IMSR_JAX:004947

Type: Organism

Proper Citation

RRID:IMSR_JAX:004947

Organism Information

URL: <https://www.jax.org/strain/004947>

Proper Citation: RRID:IMSR_JAX:004947

Description: Mus musculus with name NOD.129S2(B6)-Casp1^{tm1Sesh} Casp4/LtJ from IMSR.

Species: Mus musculus

Synonyms: NOD.129S2(B6)-Casp1/LtJ

Notes: gene symbol note: caspase 4; apoptosis-related cysteine peptidase|caspase 1; mutant strain|congenic strain: Casp4|Casp1

Affected Gene: caspase 4; apoptosis-related cysteine peptidase|caspase 1

Genomic Alteration: deletion|targeted mutation 1; Tara Seshadri

Catalog Number: JAX:004947

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: embryo

Organism Name: NOD.129S2(B6)-Casp1^{tm1Sesh} Casp4/LtJ

Record Creation Time: 20250513T053647+0000

Record Last Update: 20260829T044937+0000

Ratings and Alerts

No rating or validation information has been found for NOD.129S2(B6)-Casp1^{tm1Sesh} Casp4/LtJ.

No alerts have been found for NOD.129S2(B6)-Casp1^{tm1Sesh} Casp4/LtJ.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 4 mentions in open access literature.

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

Wang F, et al. (2024) Small-molecule caspase-1 inhibitor CZL80 terminates refractory status epilepticus via inhibition of glutamatergic transmission. *Acta pharmacologica Sinica*.

Simpson DS, et al. (2022) Interferon-?? primes macrophages for pathogen ligand-induced killing via a caspase-8 and mitochondrial cell death pathway. *Immunity*, 55(3), 423.

Tang Y, et al. (2020) Structure-based discovery of CZL80, a caspase-1 inhibitor with therapeutic potential for febrile seizures and later enhanced epileptogenic susceptibility. *British journal of pharmacology*, 177(15), 3519.

Schneider KS, et al. (2017) The Inflammasome Drives GSDMD-Independent Secondary Pyroptosis and IL-1 Release in the Absence of Caspase-1 Protease Activity. *Cell reports*, 21(13), 3846.