

Resource Summary Report

Generated by [ASWG](#) on Aug 19, 2026

B6.129(SJL)-Nrp1^{tm2Ddg/J}

RRID:IMSR_JAX:005247

Type: Organism

Proper Citation

RRID:IMSR_JAX:005247

Organism Information

URL: <https://www.jax.org/strain/005247>

Proper Citation: RRID:IMSR_JAX:005247

Description: Mus musculus with name B6.129(SJL)-Nrp1^{tm2Ddg/J} from IMSR.

Species: Mus musculus

Notes: gene symbol note: neuropilin 1; mutant strain|congenic strain: Nrp1

Affected Gene: neuropilin 1

Genomic Alteration: targeted mutation 2; David D Ginty

Catalog Number: JAX:005247

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6.129(SJL)-Nrp1^{tm2Ddg/J}

Record Creation Time: 20250513T053649+0000

Record Last Update: 20260815T050557+0000

Ratings and Alerts

No rating or validation information has been found for B6.129(SJL)-Nrp1^{tm2Ddg/J}.

No alerts have been found for B6.129(SJL)-Nrp1^{tm2Ddg/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

Perrotta S, et al. (2025) A heart-brain-spleen axis controls cardiac remodeling to hypertensive stress. *Immunity*, 58(3), 648.

Ding H, et al. (2025) Interaction of neuropilin-1 and hepatocyte growth factor/C-Met pathway in liver fibrosis progression in hepatocyte-specific NRP-1 knockout mice. *Journal of gastroenterology*, 60(8), 1000.

Pontarollo G, et al. (2023) Commensal bacteria weaken the intestinal barrier by suppressing epithelial neuropilin-1 and Hedgehog signaling. *Nature metabolism*, 5(7), 1174.

Rossignol J, et al. (2022) Neuropilin-1 cooperates with PD-1 in CD8+ T??cells predicting outcomes in melanoma patients treated with anti-PD1. *iScience*, 25(6), 104353.

Diaz-Marin R, et al. (2021) Myeloid-resident neuropilin-1 influences brown adipose tissue in obesity. *Scientific reports*, 11(1), 15767.

Chen Y, et al. (2021) Aging Reprograms the Hematopoietic-Vascular Niche to Impede Regeneration and Promote Fibrosis. *Cell metabolism*, 33(2), 395.

Nakanishi T, et al. (2019) Neuropilin-1-mediated pruning of corticospinal tract fibers is required for motor recovery after spinal cord injury. *Cell death & disease*, 10(2), 67.

Hayashi M, et al. (2019) Autoregulation of Osteocyte Sema3A Orchestrates Estrogen Action and Counteracts Bone Aging. *Cell metabolism*, 29(3), 627.

Hanchate NK, et al. (2012) SEMA3A, a gene involved in axonal pathfinding, is mutated in patients with Kallmann syndrome. *PLoS genetics*, 8(8), e1002896.