

Resource Summary Report

Generated by ASWG on Jul 29, 2026

NOD.B10Sn-H2^b/J

RRID:IMSR_JAX:002591

Type: Organism

Proper Citation

RRID:IMSR_JAX:002591

Organism Information

URL: <https://www.jax.org/strain/002591>

Proper Citation: RRID:IMSR_JAX:002591

Description: Mus musculus with name NOD.B10Sn-H2^b/J from IMSR.

Species: Mus musculus

Synonyms: NOD.B10Sn-H2b/J

Notes: gene symbol note: histocompatibility-2; MHC; mutant strain|major histocompatibility congenic|congenic strain: H2

Affected Gene: histocompatibility-2; MHC

Genomic Alteration: b variant

Catalog Number: JAX:002591

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: NOD.B10Sn-H2^b/J

Record Creation Time: 20250513T053633+0000

Record Last Update: 20260725T044340+0000

Ratings and Alerts

No rating or validation information has been found for NOD.B10Sn-H2^b/J.

No alerts have been found for NOD.B10Sn-H2^b/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 15 mentions in open access literature.

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

Bandola-Simon J, et al. (2025) Defective removal of invariant chain peptides from MHC class II suppresses tumor antigen presentation and promotes tumor growth. *Cell reports*, 44(1), 115150.

Oestereich MA, et al. (2023) Comprehensive ECG reference intervals in C57BL/6N substrains provide a generalizable guide for cardiac electrophysiology studies in mice. *Mammalian genome : official journal of the International Mammalian Genome Society*, 34(2), 180.

Delcroix V, et al. (2023) Lacrimal Gland Epithelial Cells Shape Immune Responses through the Modulation of Inflammasomes and Lipid Metabolism. *International journal of molecular sciences*, 24(5).

Mauduit O, et al. (2022) Spatial transcriptomics of the lacrimal gland features macrophage activity and epithelium metabolism as key alterations during chronic inflammation. *Frontiers in immunology*, 13, 1011125.

Haque S, et al. (2020) circRNAs expressed in human peripheral blood are associated with human aging phenotypes, cellular senescence and mouse lifespan. *GeroScience*, 42(1), 183.

Wan X, et al. (2020) The MHC-II peptidome of pancreatic islets identifies key features of autoimmune peptides. *Nature immunology*, 21(4), 455.

Yip L, et al. (2020) Gene Expression Analysis of the Pre-Diabetic Pancreas to Identify Pathogenic Mechanisms and Biomarkers of Type 1 Diabetes. *Frontiers in endocrinology*, 11, 609271.

Lin J, et al. (2020) Desensitization using imlifidase and EndoS enables chimerism induction in allosensitized recipient mice. *American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons*, 20(9), 2356.

Dai YD, et al. (2020) Endogenous retrovirus Gag antigen and its gene variants are unique autoantigens expressed in the pancreatic islets of non-obese diabetic mice. *Immunology letters*, 223, 62.

Wan X, et al. (2018) Pancreatic islets communicate with lymphoid tissues via exocytosis of insulin peptides. *Nature*, 560(7716), 107.

Nord C, et al. (2017) Biochemical profiling of diabetes disease progression by multivariate vibrational microspectroscopy of the pancreas. *Scientific reports*, 7(1), 6646.

Lee BP, et al. (2017) MicroRNAs miR-203-3p, miR-664-3p and miR-708-5p are associated with median strain lifespan in mice. *Scientific reports*, 7, 44620.

Lee BP, et al. (2016) Changes in the expression of splicing factor transcripts and variations in alternative splicing are associated with lifespan in mice and humans. *Aging cell*, 15(5), 903.

Yip L, et al. (2015) Inflammation and hyperglycemia mediate Deaf1 splicing in the pancreatic lymph nodes via distinct pathways during type 1 diabetes. *Diabetes*, 64(2), 604.

Yip L, et al. (2013) Diminished adenosine A1 receptor expression in pancreatic β -cells may contribute to the pathology of type 1 diabetes. *Diabetes*, 62(12), 4208.