

Resource Summary Report

Generated by [kravitz2](#) on Aug 1, 2026

NOD.Cg-B2m^{tm1Unc} Prkdc Il2rg/SzJ

RRID:IMSR_JAX:010636

Type: Organism

Proper Citation

RRID:IMSR_JAX:010636

Organism Information

URL: <https://www.jax.org/strain/010636>

Proper Citation: RRID:IMSR_JAX:010636

Description: Mus musculus with name NOD.Cg-B2m^{tm1Unc} Prkdc Il2rg/SzJ from IMSR.

Species: Mus musculus

Synonyms: NOD.Cg-Prkdc B2m Il2rg/SzJ. NOD-scid Il2rg B2m. NOD-scid gamma B2m. NSG B2m

Notes: gene symbol note: protein kinase; DNA activated; catalytic polypeptide|interleukin 2 receptor; gamma chain|beta-2 microglobulin; mutant strain|congenic strain: Prkdc|Il2rg|B2m

Affected Gene: protein kinase; DNA activated; catalytic polypeptide|interleukin 2 receptor; gamma chain|beta-2 microglobulin

Genomic Alteration: severe combined immunodeficiency|targeted mutation 1; Warren J Leonard|targeted mutation 1; University of North Carolina

Catalog Number: JAX:010636

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: NOD.Cg-B2m^{tm1Unc} Prkdc Il2rg/SzJ

Record Creation Time: 20250513T053717+0000

Record Last Update: 20260801T050420+0000

Ratings and Alerts

No rating or validation information has been found for NOD.Cg-B2m^{tm1Unc} Prkdc Il2rg /SzJ.

Warning: Warning. Researchers have noted that this genotype does not sufficiently model human type 1 diabetes mellitus.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 11 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Yang L, et al. (2025) GPR81 nuclear transportation is critical for cancer growth and progression in lung and other solid cancers. World journal of clinical oncology, 16(8), 107208.

Fiore D, et al. (2025) A patient-derived T cell lymphoma biorepository uncovers pathogenetic mechanisms and host-related therapeutic vulnerabilities. Cell reports. Medicine, 6(4), 102029.

Choi J, et al. (2024) Molecular targets of glucocorticoids that elucidate their therapeutic efficacy in aggressive lymphomas. Cancer cell, 42(5), 833.

Hoekstra ME, et al. (2024) Distinct spatiotemporal dynamics of CD8+ T cell-derived cytokines in the tumor microenvironment. Cancer cell, 42(1), 157.

Boyd AL, et al. (2023) Leukemic progenitor compartment serves as a prognostic measure of cancer stemness in patients with acute myeloid leukemia. Cell reports. Medicine, 4(7), 101108.

Pathak T, et al. (2023) Correction: Dichotomous role of the human mitochondrial Na⁺/Ca²⁺/Li⁺ exchanger NCLX in colorectal cancer growth and metastasis. eLife, 12.

Zhang Z, et al. (2022) RNF31 inhibition sensitizes tumors to bystander killing by innate and adaptive immune cells. Cell reports. Medicine, 3(6), 100655.

Pathak T, et al. (2020) Dichotomous role of the human mitochondrial Na⁺/Ca²⁺/Li⁺ exchanger NCLX in colorectal cancer growth and metastasis. eLife, 9.

Mineo M, et al. (2020) Tumor Interferon Signaling Is Regulated by a lncRNA INCR1 Transcribed from the PD-L1 Locus. Molecular cell, 78(6), 1207.

Vredevoogd DW, et al. (2019) Augmenting Immunotherapy Impact by Lowering Tumor TNF Cytotoxicity Threshold. *Cell*, 178(3), 585.

Bornes L, et al. (2019) Fsp1-Mediated Lineage Tracing Fails to Detect the Majority of Disseminating Cells Undergoing EMT. *Cell reports*, 29(9), 2565.