

Resource Summary Report

Generated by T1D on Sep 6, 2026

NOD.Cg-Kit^{W-41J} Tyr+ Prkdc Il2rg/ThomJ

RRID:IMSR_JAX:026622

Type: Organism

Proper Citation

RRID:IMSR_JAX:026622

Organism Information

URL: <https://www.jax.org/strain/026622>

Proper Citation: RRID:IMSR_JAX:026622

Description: Mus musculus with name NOD.Cg-Kit^{W-41J} Tyr+ Prkdc Il2rg/ThomJ from IMSR.

Species: Mus musculus

Synonyms: NBSGW

Notes: gene symbol note: protein kinase; DNA activated; catalytic polypeptide|interleukin 2 receptor; gamma chain|tyrosinase|Kit proto-oncogene receptor tyrosine kinase; mutant strain|congenic strain: Prkdc|Il2rg|Tyr|Kit

Affected Gene: protein kinase; DNA activated; catalytic polypeptide|interleukin 2 receptor; gamma chain|tyrosinase|Kit proto-oncogene receptor tyrosine kinase

Genomic Alteration: severe combined immunodeficiency|targeted mutation 1; Warren J Leonard|wild type|dominant spotting 41 Jackson

Catalog Number: JAX:026622

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: NOD.Cg-Kit^{W-41J} Tyr+ Prkdc Il2rg/ThomJ

Record Creation Time: 20250513T053757+0000

Record Last Update: 20260905T044536+0000

Ratings and Alerts

- Used for humanized mouse by the Human Islet Research Network community. Contact(s): [Michael Brehm](#), [Leonard Shultz](#) - Human Islets Research Network <https://hirnetwork.org/>

No alerts have been found for NOD.Cg-Kit^{W-41J} Tyr+ Prkdc Il2rg/ThomJ.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 23 mentions in open access literature.

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

La C, et al. (2026) In vivo modeling of human ?? T cell ontogeny reveals terminal deoxynucleotidyl transferase as a key regulator of type 3 V?2 T cell development. Cell reports, 45(2), 116977.

Chhan CB, et al. (2026) Transgenic mouse-derived human monoclonal antibodies targeting EBV gp350 and gp42 provide basis for therapeutic development. Cell reports. Medicine, 7(2), 102618.

Lyu P, et al. (2026) Genetic variation reveals a homeotic long noncoding RNA that modulates human hematopoietic stem cells. Cell, 189(13), 4022.

Zhang Z, et al. (2026) A convergent uPAR-positive tumor ecosystem creates broad vulnerability to CAR T cell therapy. Cell, 189(10), 2898.

Li S, et al. (2026) B cell TET2 recruits OGT for nuclear TET2 and H2B O-GlcNAcylation to drive AID and BLIMP-1 expression and maturation of the antibody response. Cell reports, 45(6), 117370.

Vu BL, et al. (2025) Cyp7b1-inhibiting azoles as novel enhancers of hematopoietic stem and progenitor cell mobilization. bioRxiv : the preprint server for biology.

Nikeghbal P, et al. (2025) Patient-derived ovarian cancer models demonstrate the influence of tumor-associated macrophages on therapeutic response. Oncoimmunology, 14(1), 2537710.

Chu SN, et al. (2025) Dual ?-globin-truncated erythropoietin receptor knockin restores hemoglobin production in ?-thalassemia-derived erythroid cells. Cell reports, 44(1), 115141.

Steinkamp MP, et al. (2025) Clinical translation of TLR agonist-modified silicified cancer cell therapy supported by humanized mouse models. *Molecular therapy. Oncology*, 33(4), 201074.

Garg S, et al. (2024) BRD9 regulates normal human hematopoietic stem cell function and lineage differentiation. *Cell death and differentiation*, 31(7), 868.

Chupp DP, et al. (2024) A humanized mouse that mounts mature class-switched, hypermutated and neutralizing antibody responses. *Nature immunology*, 25(8), 1489.

McAuley GE, et al. (2023) Human T cell generation is restored in CD3 γ severe combined immunodeficiency through adenine base editing. *Cell*, 186(7), 1398.

Steinkamp MP, et al. (2023) Humanized Patient-derived Xenograft Models of Disseminated Ovarian Cancer Recapitulate Key Aspects of the Tumor Immune Environment within the Peritoneal Cavity. *Cancer research communications*, 3(2), 309.

Martin-Rufino JD, et al. (2023) Massively parallel base editing to map variant effects in human hematopoiesis. *Cell*, 186(11), 2456.

Hu Y, et al. (2021) Whole-genome sequencing association analysis of quantitative red blood cell phenotypes: The NHLBI TOPMed program. *American journal of human genetics*, 108(5), 874.

Le HH, et al. (2021) Molecular modelling of the FOXO4-TP53 interaction to design senolytic peptides for the elimination of senescent cancer cells. *EBioMedicine*, 73, 103646.

Mian SA, et al. (2021) Ectopic humanized mesenchymal niche in mice enables robust engraftment of myelodysplastic stem cells. *Blood cancer discovery*, 2(2), 135.

Lan X, et al. (2021) ZNF410 Uniquely Activates the NuRD Component CHD4 to Silence Fetal Hemoglobin Expression. *Molecular cell*, 81(2), 239.

Sadras T, et al. (2021) Developmental partitioning of SYK and ZAP70 prevents autoimmunity and cancer. *Molecular cell*, 81(10), 2094.

Uchida N, et al. (2021) Preclinical evaluation for engraftment of CD34 $^{+}$ cells gene-edited at the sickle cell disease locus in xenograft mouse and non-human primate models. *Cell reports. Medicine*, 2(4), 100247.