Resource Summary Report

Generated by dkNET on Sep 5, 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 dkNET .

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? 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.