Resource Summary Report

Generated by dkNET on Sep 6, 2026

NOD.Cg-Tg(TcraTcrbNY8.3)1Pesa/DvsJ

RRID:IMSR_JAX:005868
Type: Organism

Proper Citation

RRID:IMSR_JAX:005868

Organism Information

URL: https://www.jax.org/strain/005868

Proper Citation: RRID:IMSR_JAX:005868

Description: Mus musculus with name NOD.Cg-Tg(TcraTcrbNY8.3)1Pesa/DvsJ from IMSR.

Species: Mus musculus

Synonyms: NOD-TCRalphabeta-TG. 8.3-NOD. 8.3-TCR-alpha/beta transgenic NOD. NOD.8.3. NY8.3-NOD

Notes: gene symbol note: T cell receptor alpha chain|T cell receptor beta chain|transgene insertion 1; Pere Santamaria; mutant strain|congenic strain: Tcra|Tcrb|Tg(TcraTcrbNY8.3)1Pesa

Affected Gene: T cell receptor alpha chain|T cell receptor beta chain|transgene insertion 1; Pere Santamaria

Genomic Alteration: transgene insertion 1; Pere Santamaria

Catalog Number: JAX:005868

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: NOD.Cg-Tg(TcraTcrbNY8.3)1Pesa/DvsJ

Record Creation Time: 20250513T053653+0000

Record Last Update: 20260905T044436+0000

Ratings and Alerts

No rating or validation information has been found for NOD.Cg-Tg(TcraTcrbNY8.3)1Pesa/DvsJ.

No alerts have been found for NOD.Cg-Tg(TcraTcrbNY8.3)1Pesa/DvsJ.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 18 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET .

Friedrich MJ, et al. (2026) Transient hepatic reconstitution of trophic factors enhances aged immunity. Nature, 650(8101), 481.

Miakicheva S, et al. (2026) LEF1 and niche factors determine T cell stemness across chronic diseases. Cell, 189(14), 4325.

Ciecko AE, et al. (2025) An interleukin-27-centered cytokine circuit regulates macrophage and T cell interactions in autoimmune diabetes. iScience, 28(10), 113537.

Lee J, et al. (2024) Androgens contribute to sex bias of autoimmunity in mice by T cell-intrinsic regulation of Ptpn22 phosphatase expression. Nature communications, 15(1), 7688.

Mitchell JS, et al. (2024) CD4+ T cells reactive to a hybrid peptide from insulin-chromogranin A adopt a distinct effector fate and are pathogenic in autoimmune diabetes. Immunity, 57(10), 2399.

Srivastava N, et al. (2024) CXCL16-dependent scavenging of oxidized lipids by islet macrophages promotes differentiation of pathogenic CD8+ T cells in diabetic autoimmunity. Immunity, 57(7), 1629.

Mine K, et al. (2024) TYK2 signaling promotes the development of autoreactive CD8+ cytotoxic T lymphocytes and type 1 diabetes. Nature communications, 15(1), 1337.

Gammon JM, et al. (2023) Engineering the lymph node environment promotes antigen-specific efficacy in type 1 diabetes and islet transplantation. Nature communications, 14(1), 681.

Zisi Tegou F, et al. (2022) CCL21 and beta-cell antigen releasing hydrogels as tolerance-inducing therapy in Type I diabetes. Journal of controlled release : official journal of the Controlled Release Society, 348, 499.

Pöysti S, et al. (2022) Infection with the enteric pathogen C. rodentium promotes islet-specific autoimmunity by activating a lymphatic route from the gut to pancreatic lymph node. Mucosal immunology, 15(3), 471.

Anandakumaran PN, et al. (2022) Rapid video-based deep learning of cognate versus non-cognate T cell-dendritic cell interactions. Scientific reports, 12(1), 559.

Clark M, et al. (2021) Coreceptor therapy has distinct short- and long-term tolerogenic effects intrinsic to autoreactive effector T cells. JCI insight, 6(17).

Ciecko AE, et al. (2019) Interleukin-27 Is Essential for Type 1 Diabetes Development and Sjögren Syndrome-like Inflammation. Cell reports, 29(10), 3073.

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

Carrero JA, et al. (2017) Resident macrophages of pancreatic islets have a seminal role in the initiation of autoimmune diabetes of NOD mice. Proceedings of the National Academy of Sciences of the United States of America, 114(48), E10418.

Mohan JF, et al. (2013) Pathogenic CD4? T cells recognizing an unstable peptide of insulin are directly recruited into islets bypassing local lymph nodes. The Journal of experimental medicine, 210(11), 2403.

Chen XL, et al. (2013) Induction of autoimmune diabetes in non-obese diabetic mice requires interleukin-21-dependent activation of autoreactive CD8? T cells. Clinical and experimental immunology, 173(2), 184.

Yi Z, et al. (2012) Long-term remission of diabetes in NOD mice is induced by nondepleting anti-CD4 and anti-CD8 antibodies. Diabetes, 61(11), 2871.