

Resource Summary Report

Generated by [ASWG](#) on Aug 14, 2026

B6.129S-Tnf^{tm1Gkl}/J

RRID:IMSR_JAX:005540

Type: Organism

Proper Citation

RRID:IMSR_JAX:005540

Organism Information

URL: <https://www.jax.org/strain/005540>

Proper Citation: RRID:IMSR_JAX:005540

Description: Mus musculus with name B6.129S-Tnf^{tm1Gkl}/J from IMSR.

Species: Mus musculus

Synonyms: B6.129S6-Tnf/J

Notes: gene symbol note: tumor necrosis factor; mutant strain|congenic strain: Tnf

Affected Gene: tumor necrosis factor

Genomic Alteration: targeted mutation 1; George Kollias

Catalog Number: JAX:005540

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S-Tnf^{tm1Gkl}/J

Record Creation Time: 20250513T053650+0000

Record Last Update: 20260808T050852+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S-Tnf^{tm1Gkl}/J.

Warning: Warning. Researchers have noted that this genotype does not sufficiently model human cherubism.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 20 mentions in open access literature.

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

Stoner SN, et al. (2026) Myeloid cell reprogramming drives enhanced defense against *Streptococcus pneumoniae* lung infection following exposure to commensal *Prevotella*. bioRxiv : the preprint server for biology.

Ahn JJ, et al. (2025) Coupling IL-2 with IL-10 to mitigate toxicity and enhance antitumor immunity. *Cell reports. Medicine*, 6(8), 102257.

Tai KY, et al. (2025) Adipocyte lipolysis activates epithelial stem cells for hair regeneration through fatty acid metabolic signaling. *Cell metabolism*, 37(11), 2202.

Cho NW, et al. (2025) T Cells Instruct Immune Checkpoint Inhibitor Therapy Resistance in Tumors Responsive to IL1 and TNF? *Inflammation. Cancer immunology research*, 13(2), 229.

Kim TW, et al. (2024) TNF-NF- κ B-p53 axis restricts in vivo survival of hPSC-derived dopamine neurons. *Cell*, 187(14), 3671.

Collins A, et al. (2024) Maternal inflammation regulates fetal emergency myelopoiesis. *Cell*, 187(6), 1402.

Dar HY, et al. (2023) Callus ?? T cells and microbe-induced intestinal Th17 cells improve fracture healing in mice. *The Journal of clinical investigation*, 133(8).

Pichler AC, et al. (2023) TCR-independent CD137 (4-1BB) signaling promotes CD8+-exhausted T cell proliferation and terminal differentiation. *Immunity*, 56(7), 1631.

Chambon J, et al. (2023) Early TNF-Dependent Regulation of Excitatory and Inhibitory Synapses on Striatal Direct Pathway Medium Spiny Neurons in the YAC128 Mouse Model of Huntington's Disease. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 43(4), 672.

Peng J, et al. (2022) Monocytes maintain central nervous system homeostasis following helminth-induced inflammation. *Proceedings of the National Academy of Sciences of the United States of America*, 119(37), e2201645119.

Sun H, et al. (2022) Bacteria reduce flagellin synthesis to evade microglia-astrocyte-driven immunity in the brain. *Cell reports*, 40(1), 111033.

Bates PD, et al. (2021) Combining Immunocytokine and Ex Vivo Activated NK Cells as a Platform for Enhancing Graft-Versus-Tumor Effects Against GD2+ Murine Neuroblastoma. *Frontiers in immunology*, 12, 668307.

Kaur K, et al. (2021) GM-CSF production by non-classical monocytes controls antagonistic LPS-driven functions in allergic inflammation. *Cell reports*, 37(13), 110178.

Razani B, et al. (2020) Non-catalytic ubiquitin binding by A20 prevents psoriatic arthritis-like disease and inflammation. *Nature immunology*, 21(4), 422.

Golan K, et al. (2018) Daily Onset of Light and Darkness Differentially Controls Hematopoietic Stem Cell Differentiation and Maintenance. *Cell stem cell*, 23(4), 572.

Oldenhove G, et al. (2018) PD-1 Is Involved in the Dysregulation of Type 2 Innate Lymphoid Cells in a Murine Model of Obesity. *Cell reports*, 25(8), 2053.

Yoon S, et al. (2017) MLKL, the Protein that Mediates Necroptosis, Also Regulates Endosomal Trafficking and Extracellular Vesicle Generation. *Immunity*, 47(1), 51.

Tufail Y, et al. (2017) Phosphatidylserine Exposure Controls Viral Innate Immune Responses by Microglia. *Neuron*, 93(3), 574.

Thevaranjan N, et al. (2017) Age-Associated Microbial Dysbiosis Promotes Intestinal Permeability, Systemic Inflammation, and Macrophage Dysfunction. *Cell host & microbe*, 21(4), 455.

Lewitus GM, et al. (2014) An adaptive role of TNF α in the regulation of striatal synapses. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 34(18), 6146.