

Resource Summary Report

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B6.129S6-Tbx21^{tm1Glm/J}

RRID:IMSR_JAX:004648

Type: Organism

Proper Citation

RRID:IMSR_JAX:004648

Organism Information

URL: <https://www.jax.org/strain/004648>

Proper Citation: RRID:IMSR_JAX:004648

Description: Mus musculus with name B6.129S6-Tbx21^{tm1Glm/J} from IMSR.

Species: Mus musculus

Notes: gene symbol note: T-box 21; mutant strain|congenic strain: Tbx21

Affected Gene: T-box 21

Genomic Alteration: targeted mutation 1; Laurie H Glimcher

Catalog Number: JAX:004648

Database: International Mouse Resource Center IMSR, JAX

Database Abbreviation: IMSR

Availability: live

Alternate IDs: IMSR_JAX:4648

Organism Name: B6.129S6-Tbx21^{tm1Glm/J}

Record Creation Time: 20230509T193244+0000

Record Last Update: 20250412T090318+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S6-Tbx21^{tm1Glm/J}.

No alerts have been found for B6.129S6-Tbx21^{tm1Glm/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: International Mouse Resource Center IMSR, JAX

Usage and Citation Metrics

We found 27 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Osum KC, et al. (2025) A minority of Th1 and Tfh effector cells express survival genes shared by memory cell progeny that require IL-7 or TCR signaling to persist. Cell reports, 44(1), 115111.

Bachus H, et al. (2023) IL-6 prevents Th2 cell polarization by promoting SOCS3-dependent suppression of IL-2 signaling. Cellular & molecular immunology, 20(6), 651.

Moseki RM, et al. (2023) Phenotypic Profile of Mycobacterium tuberculosis-Specific CD4 T-Cell Responses in People With Advanced Human Immunodeficiency Virus Who Develop Tuberculosis-Associated Immune Reconstitution Inflammatory Syndrome. Open forum infectious diseases, 10(1), ofac546.

McDonald B, et al. (2023) Canonical BAF complex activity shapes the enhancer landscape that licenses CD8+ T cell effector and memory fates. Immunity, 56(6), 1303.

Liu Q, et al. (2022) IL-1 β -activated mTORC2 promotes accumulation of IFN- γ + γ T cells by upregulating CXCR3 to restrict hepatic fibrosis. Cell death & disease, 13(4), 289.

Jagodinsky JC, et al. (2022) Local TLR4 stimulation augments in situ vaccination induced via local radiation and anti-CTLA-4 checkpoint blockade through induction of CD8 T-cell independent Th1 polarization. Journal for immunotherapy of cancer, 10(10).

Olson CA, et al. (2021) Alterations in the gut microbiota contribute to cognitive impairment induced by the ketogenic diet and hypoxia. Cell host & microbe, 29(9), 1378.

Lee M, et al. (2020) Single-cell RNA sequencing identifies shared differentiation paths of mouse thymic innate T cells. Nature communications, 11(1), 4367.

Milner JJ, et al. (2020) Heterogenous Populations of Tissue-Resident CD8+ T Cells Are Generated in Response to Infection and Malignancy. Immunity, 52(5), 808.

Cuff AO, et al. (2020) Tbet promotes CXCR6 expression in immature natural killer cells and natural killer cell egress from the bone marrow. *Immunology*, 161(1), 28.

Zumaquero E, et al. (2019) IFN γ induces epigenetic programming of human T-bethi B cells and promotes TLR7/8 and IL-21 induced differentiation. *eLife*, 8.

Bachus H, et al. (2019) Impaired Tumor-Necrosis-Factor- γ -driven Dendritic Cell Activation Limits Lipopolysaccharide-Induced Protection from Allergic Inflammation in Infants. *Immunity*, 50(1), 225.

Park E, et al. (2019) *Toxoplasma gondii* infection drives conversion of NK cells into ILC1-like cells. *eLife*, 8.

Chisolm DA, et al. (2019) Defining Genetic Variation in Widely Used Congenic and Backcrossed Mouse Models Reveals Varied Regulation of Genes Important for Immune Responses. *Immunity*, 51(1), 155.

Weinstein JS, et al. (2018) STAT4 and T-bet control follicular helper T cell development in viral infections. *The Journal of experimental medicine*, 215(1), 337.

Wang F, et al. (2018) Crosstalks between mTORC1 and mTORC2 variagate cytokine signaling to control NK maturation and effector function. *Nature communications*, 9(1), 4874.

Botta D, et al. (2017) Dynamic regulation of T follicular regulatory cell responses by interleukin 2 during influenza infection. *Nature immunology*, 18(11), 1249.

Iwata S, et al. (2017) The Transcription Factor T-bet Limits Amplification of Type I IFN Transcriptome and Circuitry in T Helper 1 Cells. *Immunity*, 46(6), 983.

Glanville N, et al. (2016) Tbet Deficiency Causes T Helper Cell Dependent Airways Eosinophilia and Mucus Hypersecretion in Response to Rhinovirus Infection. *PLoS pathogens*, 12(9), e1005913.

Tsaousi A, et al. (2016) Plaque Size Is Decreased but M1 Macrophage Polarization and Rupture Related Metalloproteinase Expression Are Maintained after Deleting T-Bet in ApoE Null Mice. *PloS one*, 11(2), e0148873.