

Resource Summary Report

Generated by T1D on Sep 6, 2026

B6(Cg)-Zbtb46^{tm1}(HBEGF)Mnz/J

RRID:IMSR_JAX:019506

Type: Organism

Proper Citation

RRID:IMSR_JAX:019506

Organism Information

URL: <https://www.jax.org/strain/019506>

Proper Citation: RRID:IMSR_JAX:019506

Description: Mus musculus with name B6(Cg)-Zbtb46^{tm1}(HBEGF)Mnz/J from IMSR.

Species: Mus musculus

Synonyms: C57BL/6-Zbtb46/J

Notes: gene symbol note: zinc finger and BTB domain containing 46|heparin binding EGF like growth factor|Simian Diphtheria Toxin Receptor; mutant strain: Zbtb46|HBEGF|DTR

Affected Gene: zinc finger and BTB domain containing 46|heparin binding EGF like growth factor|Simian Diphtheria Toxin Receptor

Genomic Alteration: targeted mutation 1; Michel C Nussenzweig

Catalog Number: JAX:019506

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6(Cg)-Zbtb46^{tm1}(HBEGF)Mnz/J

Record Creation Time: 20250513T053741+0000

Record Last Update: 20260905T044522+0000

Ratings and Alerts

No rating or validation information has been found for B6(Cg)-Zbtb46^{tm1}(HBEGF)Mnz/J.

No alerts have been found for B6(Cg)-Zbtb46^{tm1}(HBEGF)Mnz/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 19 mentions in open access literature.

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

Lobel L, et al. (2026) Dietary sulfur amino acids enhance anti-tumor immunity in colon cancer via an NKT cell-XCL1-cDC1 circuit. *Immunity*, 59(6), 1708.

Chen KY, et al. (2025) Inflammation switches the chemoattractant requirements for naive lymphocyte entry into lymph nodes. *Cell*, 188(4), 1019.

Eislmayr KD, et al. (2025) Macrophages orchestrate elimination of *Shigella* from the intestinal epithelial cell niche via TLR-induced IL-12 and IFN-?. *Cell host & microbe*, 33(9), 1535.

Daman AW, et al. (2025) Microbial cancer immunotherapy reprograms hematopoiesis to enhance myeloid-driven anti-tumor immunity. *Cancer cell*, 43(8), 1442.

Carroll SL, et al. (2025) Identification of distinct cDC2 subpopulations that direct microbiota-specific T cell differentiation. *bioRxiv : the preprint server for biology*.

De Giovanni M, et al. (2024) Mast cells help organize the Peyer's patch niche for induction of IgA responses. *Science immunology*, 9(93), eadj7363.

Nobs SP, et al. (2023) Lung dendritic-cell metabolism underlies susceptibility to viral infection in diabetes. *Nature*, 624(7992), 645.

Régnier P, et al. (2023) FLT3L-dependent dendritic cells control tumor immunity by modulating Treg and NK cell homeostasis. *Cell reports. Medicine*, 4(12), 101256.

Moore C, et al. (2022) Exogenous signaling repairs defective T cell signaling inside the tumor microenvironment for better immunity. *JCI insight*, 7(17).

Baharom F, et al. (2022) Systemic vaccination induces CD8+ T cells and remodels the tumor microenvironment. *Cell*, 185(23), 4317.

Dähling S, et al. (2022) Type 1 conventional dendritic cells maintain and guide the differentiation of precursors of exhausted T cells in distinct cellular niches. *Immunity*, 55(4), 656.

Yeh CH, et al. (2022) Primary germinal center-resident T follicular helper cells are a physiologically distinct subset of CXCR5^{hi}PD-1^{hi} T follicular helper cells. *Immunity*, 55(2), 272.

Go DM, et al. (2021) Programmed Death Ligand 1-Expressing Classical Dendritic Cells Mitigate *Helicobacter*-Induced Gastritis. *Cellular and molecular gastroenterology and hepatology*, 12(2), 715.

Yousif AS, et al. (2021) The persistence of interleukin-6 is regulated by a blood buffer system derived from dendritic cells. *Immunity*, 54(2), 235.

Deets KA, et al. (2021) Inflammasome activation leads to cDC1-independent cross-priming of CD8 T cells by epithelial cell-derived antigen. *eLife*, 10.

Marangoni F, et al. (2021) Expansion of tumor-associated Treg cells upon disruption of a CTLA-4-dependent feedback loop. *Cell*, 184(15), 3998.

Zhivaki D, et al. (2020) Inflammasomes within Hyperactive Murine Dendritic Cells Stimulate Long-Lived T Cell-Mediated Anti-tumor Immunity. *Cell reports*, 33(7), 108381.

de Mingo Pulido Á, et al. (2018) TIM-3 Regulates CD103⁺ Dendritic Cell Function and Response to Chemotherapy in Breast Cancer. *Cancer cell*, 33(1), 60.

Garris CS, et al. (2018) Successful Anti-PD-1 Cancer Immunotherapy Requires T Cell-Dendritic Cell Crosstalk Involving the Cytokines IFN- γ and IL-12. *Immunity*, 49(6), 1148.