

Resource Summary Report

Generated by [Kravitz](#) on Sep 20, 2026

C57BL/6-Tg(IghelMD4)4Ccg/J

RRID:IMSR_JAX:002595

Type: Organism

Proper Citation

RRID:IMSR_JAX:002595

Organism Information

URL: <https://www.jax.org/strain/002595>

Proper Citation: RRID:IMSR_JAX:002595

Description: Mus musculus with name C57BL/6-Tg(IghelMD4)4Ccg/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: Immunoglobulin heavy chain (gamma polypeptide)|transgene insertion 4; Christopher C Goodnow; mutant strain: Ighg|Tg(IghelMD4)4Ccg

Affected Gene: Immunoglobulin heavy chain (gamma polypeptide)|transgene insertion 4; Christopher C Goodnow

Genomic Alteration: transgene insertion 4; Christopher C Goodnow

Catalog Number: JAX:002595

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: C57BL/6-Tg(IghelMD4)4Ccg/J

Record Creation Time: 20250513T053633+0000

Record Last Update: 20260919T054822+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/6-Tg(IghelMD4)4Ccg/J.

Warning: Warning. Researchers have noted that this genotype does not sufficiently model human type 1 diabetes mellitus.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 27 mentions in open access literature.

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

Montgomerie I, et al. (2025) Natural Killer T follicular helper cell function permits germinal centre entry in nasal associated lymphoid tissue. *Mucosal immunology*.

Yang Y, et al. (2024) A B cell screen against endogenous retroviruses identifies glycan-reactive IgM that recognizes a broad array of enveloped viruses. *Science immunology*, 9(101), eadd6608.

Zhang Y, et al. (2024) Long-term mesoscale imaging of 3D intercellular dynamics across a mammalian organ. *Cell*, 187(21), 6104.

Tsai PJ, et al. (2024) PTEN acts as a crucial inflammatory checkpoint controlling TLR9/IL-6 axis in B cells. *iScience*, 27(7), 110388.

Martínez-Riaño A, et al. (2023) Long-term retention of antigens in germinal centers is controlled by the spatial organization of the follicular dendritic cell network. *Nature immunology*, 24(8), 1281.

García-Ferreras R, et al. (2023) Bacteria-instructed B cells cross-prime naïve CD8+ T cells triggering effective cytotoxic responses. *EMBO reports*, e56131.

Chou MY, et al. (2023) B cell peripheral tolerance is promoted by cathepsin B protease. *Proceedings of the National Academy of Sciences of the United States of America*, 120(16), e2300099120.

Fontana MF, et al. (2023) Plasmodium infection disrupts the T follicular helper cell response to heterologous immunization. *eLife*, 12.

Lee S, et al. (2022) Low-Level Expression of CD138 Marks Naturally Arising Anergic B Cells. *Immune network*, 22(6), e50.

Kwon DI, et al. (2022) Homeostatic serum IgE is secreted by plasma cells in the thymus and enhances mast cell survival. *Nature communications*, 13(1), 1418.

Ruan GX, et al. (2022) The spliceosome component Usp39 controls B cell development by regulating immunoglobulin gene rearrangement. *Cell reports*, 38(6), 110338.

Hu Q, et al. (2022) Diverging regulation of Bach2 protein and RNA expression determine cell fate in early B cell response. *Cell reports*, 40(1), 111035.

Tas JMJ, et al. (2022) Antibodies from primary humoral responses modulate the recruitment of naive B cells during secondary responses. *Immunity*, 55(10), 1856.

Razzaghi R, et al. (2021) Compromised counterselection by FAS creates an aggressive subtype of germinal center lymphoma. *The Journal of experimental medicine*, 218(3).

Klarquist J, et al. (2021) B cells promote CD8 T cell primary and memory responses to subunit vaccines. *Cell reports*, 36(8), 109591.

Senapati S, et al. (2021) Self-assembling synthetic nanoadjuvant scaffolds cross-link B cell receptors and represent new platform technology for therapeutic antibody production. *Science advances*, 7(32).

Maeda FY, et al. (2021) Surface-associated antigen induces permeabilization of primary mouse B-cells and lysosome exocytosis facilitating antigen uptake and presentation to T-cells. *eLife*, 10.

Wang Y, et al. (2021) Early developing B cells undergo negative selection by central nervous system-specific antigens in the meninges. *Immunity*, 54(12), 2784.

Brooks JF, et al. (2021) Negative feedback by NUR77/Nr4a1 restrains B cell clonal dominance during early T-dependent immune responses. *Cell reports*, 36(9), 109645.

Cui C, et al. (2021) Neoantigen-driven B cell and CD4 T follicular helper cell collaboration promotes anti-tumor CD8 T cell responses. *Cell*, 184(25), 6101.