

Resource Summary Report

Generated by [SPARC SAWG](#) on Jul 31, 2026

B6.129S2-Cd40lg^{tm1Imx/J}

RRID:IMSR_JAX:002770

Type: Organism

Proper Citation

RRID:IMSR_JAX:002770

Organism Information

URL: <https://www.jax.org/strain/002770>

Proper Citation: RRID:IMSR_JAX:002770

Description: Mus musculus with name B6.129S2-Cd40lg^{tm1Imx/J} from IMSR.

Species: Mus musculus

Synonyms: B6.129S2-Cd40/J. Cd40l. B6.129S2-Tnfsf5/J

Notes: gene symbol note: CD40 ligand; mutant strain|congenic strain: Cd40lg

Affected Gene: CD40 ligand

Genomic Alteration: targeted mutation 1; Immunex

Catalog Number: JAX:002770

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S2-Cd40lg^{tm1Imx/J}

Record Creation Time: 20250513T053634+0000

Record Last Update: 20260725T044343+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S2-Cd40lg^{tm1Imx/J}.

No alerts have been found for B6.129S2-Cd40lg^{tm1Imx/J}.

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 [SPARC SAWG](#) .

Omer-Javed A, et al. (2022) Mobilization-based chemotherapy-free engraftment of gene-edited human hematopoietic stem cells. *Cell*, 185(13), 2248.

Unger LW, et al. (2022) Chronic CD40L blockade is required for long-term cardiac allograft survival with a clinically relevant CTLA4-Ig dosing regimen. *Frontiers in immunology*, 13, 1060576.

Ma C, et al. (2022) Platelets control liver tumor growth through P2Y12-dependent CD40L release in NAFLD. *Cancer cell*, 40(9), 986.

Dawicki W, et al. (2021) CD40 signaling augments IL-10 expression and the tolerogenicity of IL-10-induced regulatory dendritic cells. *PloS one*, 16(4), e0248290.

Saadi F, et al. (2021) CD40L protects against mouse hepatitis virus-induced neuroinflammatory demyelination. *PLoS pathogens*, 17(12), e1010059.

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.

Soni C, et al. (2020) Plasmacytoid Dendritic Cells and Type I Interferon Promote Extrafollicular B Cell Responses to Extracellular Self-DNA. *Immunity*, 52(6), 1022.

Serpas L, et al. (2019) Dnase1l3 deletion causes aberrations in length and end-motif frequencies in plasma DNA. *Proceedings of the National Academy of Sciences of the United States of America*, 116(2), 641.

Tay NQ, et al. (2017) CD40L Expression Allows CD8+ T Cells to Promote Their Own Expansion and Differentiation through Dendritic Cells. *Frontiers in immunology*, 8, 1484.

Villeneuve J, et al. (2017) A Role for CD154, the CD40 Ligand, in Granulomatous Inflammation. *Mediators of inflammation*, 2017, 2982879.

Gardell JL, et al. (2017) Despite disorganized synapse structure, Th2 cells maintain directional delivery of CD40L to antigen-presenting B cells. *PloS one*, 12(10), e0186573.

Provine NM, et al. (2016) Transient CD4+ T Cell Depletion Results in Delayed Development of Functional Vaccine-Elicited Antibody Responses. *Journal of virology*, 90(9), 4278.

Elsner RA, et al. (2015) Suppression of Long-Lived Humoral Immunity Following *Borrelia burgdorferi* Infection. *PLoS pathogens*, 11(7), e1004976.

Wang JW, et al. (2015) Immunologic Control of *Mus musculus* Papillomavirus Type 1. *PLoS pathogens*, 11(10), e1005243.

Pati NB, et al. (2013) *Salmonella* Typhimurium TTSS-2 deficient mig-14 mutant shows attenuation in immunocompromised mice and offers protection against wild-type *Salmonella* Typhimurium infection. *BMC microbiology*, 13, 236.

Shugart JA, et al. (2013) A self-help program for memory CD8⁺ T cells: positive feedback via CD40-CD40L signaling as a critical determinant of secondary expansion. *PloS one*, 8(5), e64878.

Davidson DC, et al. (2012) Excess soluble CD40L contributes to blood brain barrier permeability in vivo: implications for HIV-associated neurocognitive disorders. *PloS one*, 7(12), e51793.

Vishwakarma V, et al. (2012) Evaluation of *Salmonella enterica* serovar Typhimurium TTSS-2 deficient fur mutant as safe live-attenuated vaccine candidate for immunocompromised mice. *PloS one*, 7(12), e52043.