

Resource Summary Report

Generated by [dkNET](#) on Sep 15, 2026

B6.B10ScN-Tlr4^{lps-del}/JthJ

RRID:IMSR_JAX:007227

Type: Organism

Proper Citation

RRID:IMSR_JAX:007227

Organism Information

URL: <https://www.jax.org/strain/007227>

Proper Citation: RRID:IMSR_JAX:007227

Description: Mus musculus with name B6.B10ScN-Tlr4^{lps-del}/JthJ from IMSR.

Species: Mus musculus

Notes: gene symbol note: toll-like receptor 4; mutant strain|congenic strain: Tlr4

Affected Gene: toll-like receptor 4

Genomic Alteration: defective lipopolysaccharide response; deletion

Catalog Number: JAX:007227

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6.B10ScN-Tlr4^{lps-del}/JthJ

Record Creation Time: 20250513T053702+0000

Record Last Update: 20260912T060447+0000

Ratings and Alerts

No rating or validation information has been found for B6.B10ScN-Tlr4^{lps-del}/JthJ.

No alerts have been found for B6.B10ScN-Tlr4^{lps-del}/JthJ.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 71 mentions in open access literature.

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

Patel J, et al. (2026) The magnitude and durability of neutralizing antibody responses to human papillomavirus vaccine do not depend on DNA sensing pathways. *Journal of virology*, 100(3), e0215025.

Zhang J, et al. (2026) Astrocytic calcium-dependent enzyme PAD2 governs microglia activity to exacerbate amyloid pathology via citrullinated vimentin. *Immunity*, 59(6), 1579.

Baptista AP, et al. (2025) TLR ligand sensing by lymph node FRCs directs intranodal lymphocyte accumulation to promote immune responses. *iScience*, 28(11), 113734.

Magri Z, et al. (2024) CD14 is a decision-maker between Fas-mediated death and inflammation. *Cell reports*, 43(9), 114685.

Rivera CE, et al. (2023) Intrinsic B cell TLR-BCR linked coengagement induces class-switched, hypermutated, neutralizing antibody responses in absence of T cells. *Science advances*, 9(17), eade8928.

Ryu S, et al. (2023) Bacterial Outer Membrane Vesicles Promote Lung Inflammatory Responses and Macrophage Activation via Multi-Signaling Pathways. *Biomedicines*, 11(2).

Zhang H, et al. (2022) Annexin A2/TLR2/MYD88 pathway induces arginase 1 expression in tumor-associated neutrophils. *The Journal of clinical investigation*, 132(22).

Somayajulu M, et al. (2022) Glycyrrhizin Interacts with TLR4 and TLR9 to Resolve *P. aeruginosa* Keratitis. *Pathogens (Basel, Switzerland)*, 11(11).

George PJ, et al. (2022) The Th1/Tfh-like biased responses elicited by the rASP-1 innate adjuvant are dependent on TRIF and Type I IFN receptor pathways. *Frontiers in immunology*, 13, 961094.

Vasudevan SO, et al. (2022) A TLR4-independent critical role for CD14 in intracellular LPS sensing. *Cell reports*, 39(5), 110755.

Kim KH, et al. (2021) BCG Cell Wall Skeleton As a Vaccine Adjuvant Protects Both Infant and Old-Aged Mice from Influenza Virus Infection. *Biomedicines*, 9(5).

Muniz-Bongers LR, et al. (2021) MMP2 and TLRs modulate immune responses in the tumor microenvironment. *JCI insight*, 6(12).

Wang Q, et al. (2021) Tlr2/4 Double Knockout Attenuates the Degeneration of Primary Auditory Neurons: Potential Mechanisms From Transcriptomic Perspectives. *Frontiers in cell and developmental biology*, 9, 750271.

Solorzano S, et al. (2021) Minimal role of interleukin 6 and toll-like receptor 2 and 4 in murine models of immune-mediated bone marrow failure. *PloS one*, 16(3), e0248343.

Blake SJ, et al. (2021) The immunotoxicity, but not anti-tumor efficacy, of anti-CD40 and anti-CD137 immunotherapies is dependent on the gut microbiota. *Cell reports. Medicine*, 2(12), 100464.

Wu Y, et al. (2021) *Candida albicans* elicits protective allergic responses via platelet mediated T helper 2 and T helper 17 cell polarization. *Immunity*, 54(11), 2595.

Chen T, et al. (2020) Macrophage-derived myeloid differentiation protein 2 plays an essential role in ox-LDL-induced inflammation and atherosclerosis. *EBioMedicine*, 53, 102706.

Lavagna A, et al. (2020) Recognition of Lipoproteins by Toll-like Receptor 2 and DNA by the AIM2 Inflammasome Is Responsible for Production of Interleukin-1?? by Virulent Suilysin-negative *Streptococcus suis* Serotype 2. *Pathogens (Basel, Switzerland)*, 9(2).

McKernan K, et al. (2020) Role of TLR4 in the induction of inflammatory changes in adipocytes and macrophages. *Adipocyte*, 9(1), 212.

Palmer LD, et al. (2020) Modulating Isoprenoid Biosynthesis Increases Lipooligosaccharides and Restores *Acinetobacter baumannii* Resistance to Host and Antibiotic Stress. *Cell reports*, 32(10), 108129.