

Resource Summary Report

Generated by [RRID](#) on Jul 30, 2026

B6.129-Tlr2^{tm1Kir}/J

RRID:IMSR_JAX:004650

Type: Organism

Proper Citation

RRID:IMSR_JAX:004650

Organism Information

URL: <https://www.jax.org/strain/004650>

Proper Citation: RRID:IMSR_JAX:004650

Description: Mus musculus with name B6.129-Tlr2^{tm1Kir}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: toll-like receptor 2; mutant strain|congenic strain: Tlr2

Affected Gene: toll-like receptor 2

Genomic Alteration: targeted mutation 1; Carsten J Kirschning

Catalog Number: JAX:004650

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129-Tlr2^{tm1Kir}/J

Record Creation Time: 20250513T053646+0000

Record Last Update: 20260725T044355+0000

Ratings and Alerts

No rating or validation information has been found for B6.129-Tlr2^{tm1Kir}/J.

No alerts have been found for B6.129-Tlr2^{tm1Kir}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 105 mentions in open access literature.

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

Park HS, et al. (2025) Endogenous hepcidin plays an essential role in Mycobacterium tuberculosis Rv1876 antigen-induced antimicrobial activity in macrophages. Emerging microbes & infections, 14(1), 2539192.

Silva de Oliveira R, et al. (2025) Bifidobacteria-derived exopolysaccharide promotes anti-tumor immunity. Cell reports, 44(9), 116223.

Cho HS, et al. (2025) Structure of gut microbial glycolipid modulates host inflammatory response. Cell.

McCright SJ, et al. (2025) Dietary saturated fatty acids promote lung myeloid cell inflammasome activation and IL-1 β -mediated inflammation in mice and humans. Science translational medicine, 17(813), eadp5653.

Goryachok M, et al. (2025) Functional CFTR may be required for Prevotella melaninogenica regulation of epithelial cell defense against Staphylococcus aureus. Journal of cystic fibrosis : official journal of the European Cystic Fibrosis Society.

Xiong L, et al. (2024) TLR2 regulates hair follicle cycle and regeneration via BMP signaling. eLife, 12.

Griesman T, et al. (2024) The lipopeptide Pam3CSK4 inhibits Rift Valley fever virus infection and protects from encephalitis. PLoS pathogens, 20(6), e1012343.

Yadav S, et al. (2023) TLR4 activation by lysozyme induces pain without inflammation. Frontiers in immunology, 14, 1065226.

Hu Z, et al. (2023) The Impact of Aging and Toll-like Receptor 2 Deficiency on the Clinical Outcomes of Staphylococcus aureus Bacteremia. The Journal of infectious diseases, 228(3), 332.

Gupta P, et al. (2023) The impact of TLR2 and aging on the humoral immune response to Staphylococcus aureus bacteremia in mice. Scientific reports, 13(1), 8850.

Aggarwal SD, et al. (2023) BlpC-mediated selfish program leads to rapid loss of Streptococcus pneumoniae clonal diversity during infection. Cell host & microbe, 31(1), 124.

Normile TG, et al. (2022) Vaccine protection by *Cryptococcus neoformans* ?sgl1 is mediated by ?? T cells via TLR2 signaling. *Mucosal immunology*, 15(6), 1416.

Fernández-Arjona MDM, et al. (2022) Microbial neuraminidase induces TLR4-dependent long-term immune priming in the brain. *Frontiers in cellular neuroscience*, 16, 945229.

Kelly AM, et al. (2022) *Staphylococcus aureus*-induced immunosuppression mediated by IL-10 and IL-27 facilitates nasal colonisation. *PLoS pathogens*, 18(7), e1010647.

Bae HJ, et al. (2022) Effects of repetitive training on learning and memory performance of TLR2 KO mice. *Behavioural brain research*, 426, 113836.

Zhai Y, et al. (2022) Elevated Expression of TLR2 in Aging Hearts Exacerbates Cardiac Inflammatory Response and Adverse Remodeling Following Ischemia and Reperfusion Injury. *Frontiers in immunology*, 13, 891570.

Di Lorenzo A, et al. (2022) Toll-like receptor 2 promotes breast cancer progression and resistance to chemotherapy. *Oncoimmunology*, 11(1), 2086752.

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).

Jeyanathan M, et al. (2022) Parenteral BCG vaccine induces lung-resident memory macrophages and trained immunity via the gut-lung axis. *Nature immunology*, 23(12), 1687.

Papadas A, et al. (2022) Stromal remodeling regulates dendritic cell abundance and activity in the tumor microenvironment. *Cell reports*, 40(7), 111201.