

Resource Summary Report

Generated by [RRID](#) on Jul 29, 2026

B6.129S1-Tlr7^{tm1Flv}/J

RRID:IMSR_JAX:008380

Type: Organism

Proper Citation

RRID:IMSR_JAX:008380

Organism Information

URL: <https://www.jax.org/strain/008380>

Proper Citation: RRID:IMSR_JAX:008380

Description: Mus musculus with name B6.129S1-Tlr7^{tm1Flv}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: toll-like receptor 7|beta-galactosidase; congenic strain: Tlr7|lacZ

Affected Gene: toll-like receptor 7|beta-galactosidase

Genomic Alteration: targeted mutation 1; Richard A Flavell

Catalog Number: JAX:008380

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S1-Tlr7^{tm1Flv}/J

Record Creation Time: 20250513T053708+0000

Record Last Update: 20260725T044420+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S1-Tlr7^{tm1Flv}/J.

No alerts have been found for B6.129S1-Tlr7^{tm1Flv}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 36 mentions in open access literature.

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

Chen T, et al. (2026) Targeting TLR7 reprograms macrophage function to attenuate influenza-associated Staphylococcus aureus coinfection. *Microbial pathogenesis*, 210, 108208.

Mohamed-Hinds R, et al. (2025) Toll-like Receptor 7 Deficiency Attenuates Platelet Dysfunction in Sepsis. *Biomolecules*, 15(11).

Mears KS, et al. (2025) Therapeutic activation of IL-22-producing innate lymphoid cells enhances host defenses to Clostridioides difficile infection. *Cell reports*, 44(4), 115438.

Zhang L, et al. (2025) Stress triggers irritable bowel syndrome with diarrhea through a spermidine-mediated decline in type I interferon. *Cell metabolism*, 37(1), 87.

Park C, et al. (2024) Extracellular vesicles in sepsis plasma mediate neuronal inflammation in the brain through miRNAs and innate immune signaling. *Journal of neuroinflammation*, 21(1), 252.

Li J, et al. (2023) TLR7 modulates extramedullary splenic erythropoiesis in P. yoelii NSM-infected mice through the regulation of iron metabolism of macrophages with IFN-?. *Frontiers in immunology*, 14, 1123074.

Liu J, et al. (2023) Activation of TLR7-mediated autophagy increases epileptic susceptibility via reduced KIF5A-dependent GABAA receptor transport in a murine model. *Experimental & molecular medicine*, 55(6), 1159.

Zhou L, et al. (2022) TLR7 controls myeloid-derived suppressor cells expansion and function in the lung of C57BL6 mice infected with Schistosoma japonicum. *PLoS neglected tropical diseases*, 16(10), e0010851.

Querrey M, et al. (2022) CD11b suppresses TLR activation of nonclassical monocytes to reduce primary graft dysfunction after lung transplantation. *The Journal of clinical investigation*, 132(14).

Zou L, et al. (2022) Brain innate immune response via miRNA-TLR7 sensing in polymicrobial sepsis. *Brain, behavior, and immunity*, 100, 10.

Wei H, et al. (2021) TLR7 modulating B-cell immune responses in the spleen of C57BL/6 mice infected with Schistosoma japonicum. *PLoS neglected tropical diseases*, 15(11), e0009943.

Proskocil BJ, et al. (2021) TLR7 is expressed by support cells, but not sensory neurons, in ganglia. *Journal of neuroinflammation*, 18(1), 209.

Feng Y, et al. (2021) Roles of TLR7 in *Schistosoma japonicum* Infection-Induced Hepatic Pathological Changes in C57BL/6 Mice. *Frontiers in cellular and infection microbiology*, 11, 754299.

Shah D, et al. (2021) A novel miR1983-TLR7-IFN γ circuit licenses NK cells to kill glioma cells, and is under the control of galectin-1. *Oncoimmunology*, 10(1), 1939601.

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.

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.

Winkler ES, et al. (2020) The Intestinal Microbiome Restricts Alphavirus Infection and Dissemination through a Bile Acid-Type I IFN Signaling Axis. *Cell*, 182(4), 901.

Lou F, et al. (2020) Excessive Polyamine Generation in Keratinocytes Promotes Self-RNA Sensing by Dendritic Cells in Psoriasis. *Immunity*, 53(1), 204.

Qu J, et al. (2019) TLR7 Modulated T Cell Response in the Mesenteric Lymph Node of *Schistosoma japonicum*-Infected C57BL/6 Mice. *Journal of immunology research*, 2019, 2691808.

Oh DS, et al. (2019) Differential Role of Anti-Viral Sensing Pathway for the Production of Type I Interferon γ in Dendritic Cells and Macrophages Against Respiratory Syncytial Virus A2 Strain Infection. *Viruses*, 11(1).