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.

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.

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

Shah D, et al. (2021) A novel miR1983-TLR7-IFN? 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.

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

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.

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 ? in Dendritic Cells and Macrophages Against Respiratory Syncytial Virus A2 Strain Infection. Viruses, 11(1).