

Resource Summary Report

Generated by [NIF](#) on Sep 12, 2026

B6;129S1-Tlr3^{tm1Flv}/J

RRID:IMSR_JAX:005217

Type: Organism

Proper Citation

RRID:IMSR_JAX:005217

Organism Information

URL: <https://www.jax.org/strain/005217>

Proper Citation: RRID:IMSR_JAX:005217

Description: Mus musculus with name B6;129S1-Tlr3^{tm1Flv}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: toll-like receptor 3; mutant stock: Tlr3

Affected Gene: toll-like receptor 3

Genomic Alteration: targeted mutation 1; Richard A Flavell

Catalog Number: JAX:005217

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6;129S1-Tlr3^{tm1Flv}/J

Record Creation Time: 20250513T053649+0000

Record Last Update: 20260905T044431+0000

Ratings and Alerts

No rating or validation information has been found for B6;129S1-Tlr3^{tm1Flv}/J.

No alerts have been found for B6;129S1-Tlr3^{tm1Flv}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 48 mentions in open access literature.

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

Qiu L, et al. (2024) TLR3 activation enhances abscopal effect of radiotherapy in HCC by promoting tumor ferroptosis. *EMBO molecular medicine*, 16(5), 1193.

Escoubas CC, et al. (2024) Type-I-interferon-responsive microglia shape cortical development and behavior. *Cell*.

López DA, et al. (2024) Prenatal inflammation remodels lung immunity and function by programming ILC2 hyperactivation. *Cell reports*, 43(7), 114365.

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

López DA, et al. (2023) Prenatal inflammation reprograms hyperactive ILC2s that promote allergic lung inflammation and airway dysfunction. *bioRxiv : the preprint server for biology*.

Parhiz H, et al. (2022) Added to pre-existing inflammation, mRNA-lipid nanoparticles induce inflammation exacerbation (IE). *Journal of controlled release : official journal of the Controlled Release Society*, 344, 50.

López DA, et al. (2022) Prenatal inflammation perturbs murine fetal hematopoietic development and causes persistent changes to postnatal immunity. *Cell reports*, 41(8), 111677.

Koerner J, et al. (2021) PLGA-particle vaccine carrying TLR3/RIG-I ligand Riboxsim synergizes with immune checkpoint blockade for effective anti-cancer immunotherapy. *Nature communications*, 12(1), 2935.

Zhang G, et al. (2021) Toll-like receptor 3 ablation prevented high-fat diet-induced obesity and metabolic disorder. *The Journal of nutritional biochemistry*, 95, 108761.

Zhang X, et al. (2021) Host defense against *Neospora caninum* infection via IL-12p40 production through TLR2/TLR3-AKT-ERK signaling pathway in C57BL/6 mice. *Molecular immunology*, 139, 140.

de Queiroz NMGP, et al. (2021) MyD88-dependent BCG immunotherapy reduces tumor and regulates tumor microenvironment in bladder cancer murine model. *Scientific reports*, 11(1), 15648.

Park M, et al. (2020) A Novel Virus Alters Gene Expression and Vacuolar Morphology in *Malassezia* Cells and Induces a TLR3-Mediated Inflammatory Immune Response. *mBio*, 11(5).

Ma G, et al. (2020) Ribonuclease alleviates hepatic ischemia-reperfusion injury by suppressing excessive cytokine release and TLR3-mediated apoptosis in mice. *Cytokine*, 133, 155178.

Luo Z, et al. (2019) Toll-Like Receptor 7 Enhances Rabies Virus-Induced Humoral Immunity by Facilitating the Formation of Germinal Centers. *Frontiers in immunology*, 10, 429.

Chen X, et al. (2019) Activation of multiple Toll-like receptors serves different roles in sepsis-induced acute lung injury. *Experimental and therapeutic medicine*, 18(1), 443.

Patel S, et al. (2019) Role of NS1 and TLR3 in Pathogenesis and Immunity of WNV. *Viruses*, 11(7).

Chen C, et al. (2019) Extracellular RNAs-TLR3 signaling contributes to cognitive decline in a mouse model of postoperative cognitive dysfunction. *Brain, behavior, and immunity*, 80, 439.

Gopinath S, et al. (2018) Topical application of aminoglycoside antibiotics enhances host resistance to viral infections in a microbiota-independent manner. *Nature microbiology*, 3(5), 611.

Zhu R, et al. (2018) Toll-like receptor 3 modulates the behavioral effects of cocaine in mice. *Journal of neuroinflammation*, 15(1), 93.

Fattahi F, et al. (2018) Harmful Roles of TLR3 and TLR9 in Cardiac Dysfunction Developing during Polymicrobial Sepsis. *BioMed research international*, 2018, 4302726.