

Resource Summary Report

Generated by [NIF](#) on Sep 18, 2026

C57BL/6-Tlr9^{em1.1Ldm}/J

RRID:IMSR_JAX:034449

Type: Organism

Proper Citation

RRID:IMSR_JAX:034449

Organism Information

URL: <https://www.jax.org/strain/034449>

Proper Citation: RRID:IMSR_JAX:034449

Description: Mus musculus with name C57BL/6-Tlr9^{em1.1Ldm}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: toll-like receptor 9; coisogenic strain|mutant strain: Tlr9

Affected Gene: toll-like receptor 9

Genomic Alteration: endonuclease-mediated mutation 1.1; Louis De Muynck

Catalog Number: JAX:034449

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: C57BL/6-Tlr9^{em1.1Ldm}/J

Record Creation Time: 20250513T053843+0000

Record Last Update: 20260912T060616+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/6-Tlr9^{em1.1Ldm}/J.

No alerts have been found for C57BL/6-Tlr9^{em1.1Ldm}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 37 mentions in open access literature.

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

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.

De Gaetano GV, et al. (2025) Role of endosomal toll-like receptors in immune sensing of *Klebsiella pneumoniae*. *Frontiers in immunology*, 16, 1538425.

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.

Li XQ, et al. (2024) LTX-315 triggers anticancer immunity by inducing MyD88-dependent maturation of dendritic cells. *Frontiers in immunology*, 15, 1332922.

Tripathi A, et al. (2023) Activation of cell-free mtDNA-TLR9 signaling mediates chronic stress-induced social behavior deficits. *Molecular psychiatry*, 28(9), 3806.

da Silva-Junior EB, et al. (2022) Pulmonary Fibrosis and Hypereosinophilia in TLR9-/- Mice Infected by *Cryptococcus gattii*. *Pathogens (Basel, Switzerland)*, 11(9).

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

Nakagawa T, et al. (2021) S-540956, a CpG Oligonucleotide Annealed to a Complementary Strand With an Amphiphilic Chain Unit, Acts as a Potent Cancer Vaccine Adjuvant by Targeting Draining Lymph Nodes. *Frontiers in immunology*, 12, 803090.

Trevelin SC, et al. (2021) Endothelial Nox2 Limits Systemic Inflammation and Hypotension in Endotoxemia by Controlling Expression of Toll-Like Receptor 4. *Shock (Augusta, Ga.)*, 56(2), 268.

Hood-Pishchany MI, et al. (2020) Broad-spectrum suppression of bacterial pneumonia by aminoglycoside-propagated *Acinetobacter baumannii*. *PLoS pathogens*, 16(3), e1008374.

Campolo M, et al. (2020) TLR7/8 in the Pathogenesis of Parkinson's Disease. *International journal of molecular sciences*, 21(24).

Yuan X, et al. (2020) Carbon black nanoparticles induce cell necrosis through lysosomal membrane permeabilization and cause subsequent inflammatory response. *Theranostics*, 10(10), 4589.

Pratti JES, et al. (2019) The role of TLR9 on *Leishmania amazonensis* infection and its influence on intranasal LaAg vaccine efficacy. *PLoS neglected tropical diseases*, 13(2), e0007146.

Sardinha-Silva A, et al. (2019) The lectin-specific activity of *Toxoplasma gondii* microneme proteins 1 and 4 binds Toll-like receptor 2 and 4 N-glycans to regulate innate immune priming. *PLoS pathogens*, 15(6), e1007871.

Martínez-Colón GJ, et al. (2019) Influenza-induced immune suppression to methicillin-resistant *Staphylococcus aureus* is mediated by TLR9. *PLoS pathogens*, 15(1), e1007560.

Biswas C, et al. (2018) Tyrosine 870 of TLR9 is critical for receptor maturation rather than phosphorylation-dependent ligand-induced signaling. *PloS one*, 13(7), e0200913.

Loomis Z, et al. (2017) Hemoglobin induced cell trauma indirectly influences endothelial TLR9 activity resulting in pulmonary vascular smooth muscle cell activation. *PloS one*, 12(2), e0171219.

Tursi SA, et al. (2017) Bacterial amyloid curli acts as a carrier for DNA to elicit an autoimmune response via TLR2 and TLR9. *PLoS pathogens*, 13(4), e1006315.

Kader M, et al. (2017) MyD88-dependent inflammasome activation and autophagy inhibition contributes to *Ehrlichia*-induced liver injury and toxic shock. *PLoS pathogens*, 13(10), e1006644.

Van Prooyen N, et al. (2016) CD103+ Conventional Dendritic Cells Are Critical for TLR7/9-Dependent Host Defense against *Histoplasma capsulatum*, an Endemic Fungal Pathogen of Humans. *PLoS pathogens*, 12(7), e1005749.