

Resource Summary Report

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

C57BL/6J-Sting1^{gt}/J

RRID:IMSR_JAX:017537

Type: Organism

Proper Citation

RRID:IMSR_JAX:017537

Organism Information

URL: <https://www.jax.org/strain/017537>

Proper Citation: RRID:IMSR_JAX:017537

Description: Mus musculus with name C57BL/6J-Sting1^{gt}/J from IMSR.

Species: Mus musculus

Synonyms: C57BL/6J-Tmem173/J

Notes: gene symbol note: stimulator of interferon response cGAMP interactor 1; coisogenic strain|mutant strain: Sting1

Affected Gene: stimulator of interferon response cGAMP interactor 1

Genomic Alteration: goldenticket

Catalog Number: JAX:017537

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: C57BL/6J-Sting1^{gt}/J

Record Creation Time: 20250513T053732+0000

Record Last Update: 20260725T044441+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/6J-Sting1^{gt}/J.

No alerts have been found for C57BL/6J-Sting1^{gt}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 38 mentions in open access literature.

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

Lai YG, et al. (2025) cGAS and STING in Host Myeloid Cells Are Essential for Effective Cyclophosphamide Treatment of Advanced Breast Cancer. *Cancers*, 17(7).

Nelson KL, et al. (2025) VAX014 Activates Tumor-Intrinsic STING and RIG-I to Promote the Development of Antitumor Immunity. *Molecular cancer therapeutics*, 24(4), 587.

Poddar S, et al. (2025) ArfGAP2 promotes STING proton channel activity, cytokine transit, and autoinflammation. *Cell*, 188(6), 1605.

Herbst M, et al. (2025) Cancer-cell-derived cGAMP limits the activity of tumor-associated CD8+ T cells. *Cell reports*, 44(4), 115510.

Zhou W, et al. (2025) ILC3s sense gut microbiota through STING to initiate immune tolerance. *Immunity*, 58(7), 1762.

Götttert S, et al. (2025) The microbial metabolite desaminotyrosine protects against graft-versus-host disease via mTORC1 and STING-dependent intestinal regeneration. *Nature communications*, 16(1), 9282.

Purbey PK, et al. (2024) Opposing tumor-cell-intrinsic and -extrinsic roles of the IRF1 transcription factor in antitumor immunity. *Cell reports*, 43(6), 114289.

Franco-Enzástiga Ú, et al. (2024) Vinorelbine causes a neuropathic pain-like state in mice via STING and MNK1 signaling associated with type I interferon induction. *iScience*, 27(2), 108808.

Zhao QX, et al. (2024) STING deficiency alleviates ferroptosis through FPN1 stabilization in diabetic kidney disease. *Biochemical pharmacology*, 222, 116102.

Shakfa N, et al. (2023) Cancer cell genotype associated tumor immune microenvironment exhibits differential response to therapeutic STING pathway activation in high-grade serous ovarian cancer. *Journal for immunotherapy of cancer*, 11(4).

Zhou S, et al. (2023) Engineering cGAS-agonistic oligonucleotides as therapeutics and vaccine adjuvants for cancer immunotherapy. *bioRxiv : the preprint server for biology*.

Falahat R, et al. (2023) Epigenetic state determines the in vivo efficacy of STING agonist therapy. *Nature communications*, 14(1), 1573.

Marino G, et al. (2023) STING is redundant for host defense and pathology of COVID-19-like disease in mice. *Life science alliance*, 6(8).

Shi J, et al. (2023) Protocol for the identification and expression analysis of a cytoplasmic membrane-localized protein STING. *STAR protocols*, 4(2), 102172.

Meibers HE, et al. (2023) Effector memory T cells induce innate inflammation by triggering DNA damage and a non-canonical STING pathway in dendritic cells. *Cell reports*, 42(10), 113180.

Lei Y, et al. (2023) Cooperative sensing of mitochondrial DNA by ZBP1 and cGAS promotes cardiotoxicity. *Cell*, 186(14), 3013.

Zhang P, et al. (2023) STING agonist-loaded, CD47/PD-L1-targeting nanoparticles potentiate antitumor immunity and radiotherapy for glioblastoma. *Nature communications*, 14(1), 1610.

Kessler N, et al. (2022) Monocyte-derived macrophages aggravate pulmonary vasculitis via cGAS/STING/IFN-mediated nucleic acid sensing. *The Journal of experimental medicine*, 219(10).

Singh AK, et al. (2022) Re-engineered BCG overexpressing cyclic di-AMP augments trained immunity and exhibits improved efficacy against bladder cancer. *Nature communications*, 13(1), 878.

Li X, et al. (2022) Cancer immunotherapy based on image-guided STING activation by nucleotide nanocomplex-decorated ultrasound microbubbles. *Nature nanotechnology*, 17(8), 891.