

Resource Summary Report

Generated by [NIF](#) on Aug 1, 2026

B6.129S2-Ighm^{tm1Cgn}/J

RRID:IMSR_JAX:002288

Type: Organism

Proper Citation

RRID:IMSR_JAX:002288

Organism Information

URL: <https://www.jax.org/strain/002288>

Proper Citation: RRID:IMSR_JAX:002288

Description: Mus musculus with name B6.129S2-Ighm^{tm1Cgn}/J from IMSR.

Species: Mus musculus

Synonyms: B6.129S2-Igh-6/J

Notes: gene symbol note: immunoglobulin heavy constant mu; mutant strain|congenic strain: Ighm

Affected Gene: immunoglobulin heavy constant mu

Genomic Alteration: targeted mutation 1; University of Cologne

Catalog Number: JAX:002288

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S2-Ighm^{tm1Cgn}/J

Record Creation Time: 20250513T053630+0000

Record Last Update: 20260801T050335+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S2-Ighm^{tm1Cgn}/J.

Warning: Warning. Researchers have noted that this genotype does not sufficiently model human rheumatoid arthritis.

Warning: Warning. Researchers have noted that this genotype does not sufficiently model human type 1 diabetes mellitus.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 130 mentions in open access literature.

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

Fike AJ, et al. (2025) IRF7 controls spontaneous autoimmune germinal center and plasma cell checkpoints. bioRxiv : the preprint server for biology.

Risley CA, et al. (2025) Transcription factor T-bet regulates the maintenance and differentiation potential of lymph node and lung effector memory B cell subsets. Immunity, 58(7), 1706.

Kurt-Jones EA, et al. (2025) Interferon-epsilon, an estrogen-induced type I interferon, is uniquely exploited by Neisseria gonorrhoeae via effects on sialic acid metabolism. Cell host & microbe, 33(7), 1133.

Shenoy MK, et al. (2025) Breast milk IgG engages the mouse neonatal immune system to instruct responses to gut antigens. Science (New York, N.Y.), 389(6761), eado5294.

Toledo-Teixeira DA, et al. (2025) MyD88 signalling in B cells and antibody responses during Oropouche virus-induced neurological disease in mice. EBioMedicine, 117, 105815.

Kline SN, et al. (2025) Epicutaneous Staphylococcus aureus initiates cross-tissue IL-36R signaling for neutrophilic lung inflammation in a model of the atopic march. Cell reports, 44(8), 116054.

Lee W, et al. (2025) Neutrophil extracellular traps promote pre-metastatic niche formation in the omentum by expanding innate-like B cells that express IL-10. Cancer cell, 43(1), 69.

Burrows K, et al. (2025) A gut commensal protozoan determines respiratory disease outcomes by shaping pulmonary immunity. Cell, 188(2), 316.

Cole AC, et al. (2025) Adoptively transferred Th17 cells cooperate with host B cells to achieve durable tumor immunity. Cancer cell, 43(9), 1697.

Lee W, et al. (2025) Protocol for assessing mobilization of peritoneal B cells to the pre-metastatic omentum in an orthotopic mouse model of ovarian cancer. STAR protocols, 6(2), 103806.

Luo X, et al. (2025) An interleukin-9-ZBTB18 axis promotes germinal center development of memory B cells. *Immunity*, 58(4), 861.

Benjamin JS, et al. (2025) 23ME-01473, an Fc Effector-Enhanced Anti-ULBP6/2/5 Antibody, Restores NK Cell-Mediated Antitumor Immunity through NKG2D and FcγRIIIa Activation. *Cancer research communications*, 5(3), 476.

Zuo T, et al. (2025) Somatic hypermutation generates antibody specificities beyond the primary repertoire. *Immunity*, 58(6), 1396.

Herrmann C, et al. (2025) Environmental stress drives clearance of a persistent enteric virus in mice. *Nature microbiology*, 10(8), 1975.

Hadebe S, et al. (2025) Immunoglobulin M regulates airway hyperresponsiveness independent of T helper 2 allergic inflammation. *eLife*, 12.

Zhu X, et al. (2024) The nutrient-sensing Rag-GTPase complex in B cells controls humoral immunity via TFEB/TFE3-dependent mitochondrial fitness. *bioRxiv : the preprint server for biology*.

Groeneveldt C, et al. (2024) Neutralizing Antibodies Impair the Oncolytic Efficacy of Reovirus but Permit Effective Combination with T cell-Based Immunotherapies. *Cancer immunology research*, 12(3), 334.

Zhu X, et al. (2024) The nutrient-sensing Rag-GTPase complex in B cells controls humoral immunity via TFEB/TFE3-dependent mitochondrial fitness. *Nature communications*, 15(1), 10163.

Porier DL, et al. (2024) Humoral and T-cell-mediated responses to an insect-specific flavivirus-based Zika virus vaccine candidate. *PLoS pathogens*, 20(10), e1012566.

Carey A, et al. (2024) Age-associated accumulation of B cells promotes macrophage inflammation and inhibits lipolysis in adipose tissue during sepsis. *Cell reports*, 43(3), 113967.