

Resource Summary Report

Generated by [FDI Lab - SciCrunch.org](#) on May 15, 2025

B6.129S1-Irf4^{tm1Rdf}/J

RRID:IMSR_JAX:009380

Type: Organism

Proper Citation

RRID:IMSR_JAX:009380

Organism Information

URL: <https://www.jax.org/strain/009380>

Proper Citation: RRID:IMSR_JAX:009380

Description: Mus musculus with name B6.129S1-Irf4^{tm1Rdf}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: |interferon regulatory factor 4; congenic strain: |Irf4

Affected Gene: |interferon regulatory factor 4

Genomic Alteration: targeted mutation 1; Riccardo Dalla-Favera

Catalog Number: JAX:009380

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S1-Irf4^{tm1Rdf}/J

Record Creation Time: 20250513T053714+0000

Record Last Update: 20250513T053903+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S1-Irf4^{tm1Rdf/J}.

No alerts have been found for B6.129S1-Irf4^{tm1Rdf/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 21 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Mandula JK, et al. (2024) Jagged2 targeting in lung cancer activates anti-tumor immunity via Notch-induced functional reprogramming of tumor-associated macrophages. *Immunity*, 57(5), 1124.

Lyons-Cohen MR, et al. (2023) Prolonged T cell - DC macro-clustering within lymph node microenvironments initiates Th2 cell differentiation in a site-specific manner. *bioRxiv : the preprint server for biology*.

Yan H, et al. (2023) The transcription factor IRF4 determines the anti-tumor immunity of CD8+ T cells. *iScience*, 26(11), 108087.

Gargaro M, et al. (2022) Indoleamine 2,3-dioxygenase 1 activation in mature cDC1 promotes tolerogenic education of inflammatory cDC2 via metabolic communication. *Immunity*, 55(6), 1032.

Hu Q, et al. (2022) Diverging regulation of Bach2 protein and RNA expression determine cell fate in early B cell response. *Cell reports*, 40(1), 111035.

Yao T, et al. (2022) Obese Skeletal Muscle-Expressed Interferon Regulatory Factor 4 Transcriptionally Regulates Mitochondrial Branched-Chain Aminotransferase Reprogramming Metabolome. *Diabetes*, 71(11), 2256.

Doron I, et al. (2021) Human gut mycobiota tune immunity via CARD9-dependent induction of anti-fungal IgG antibodies. *Cell*, 184(4), 1017.

Metzger P, et al. (2020) Systemic but not MDSC-specific IRF4 deficiency promotes an immunosuppressed tumor microenvironment in a murine pancreatic cancer model. *Cancer immunology, immunotherapy : CII*, 69(10), 2101.

Kim S, et al. (2020) High Amount of Transcription Factor IRF8 Engages AP1-IRF Composite Elements in Enhancers to Direct Type 1 Conventional Dendritic Cell Identity. *Immunity*,

53(4), 759.

Zhu X, et al. (2020) IRF4 in Skeletal Muscle Regulates Exercise Capacity via PTG/Glycogen Pathway. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 7(19), 2001502.

Lee J, et al. (2020) Inhibition of IRF4 in dendritic cells by PRR-independent and -dependent signals inhibit Th2 and promote Th17 responses. *eLife*, 9.

Janela B, et al. (2019) A Subset of Type I Conventional Dendritic Cells Controls Cutaneous Bacterial Infections through VEGF β -Mediated Recruitment of Neutrophils. *Immunity*, 50(4), 1069.

Liu D, et al. (2019) IL-10-Dependent Crosstalk between Murine Marginal Zone B Cells, Macrophages, and CD8 α^+ Dendritic Cells Promotes *Listeria monocytogenes* Infection. *Immunity*, 51(1), 64.

Pham D, et al. (2019) Batf1 Promotes the Reorganization of Chromatin in Developing Effector T Cells via Ets1-Dependent Recruitment of Ctcf. *Cell reports*, 29(5), 1203.

Moon HG, et al. (2018) Airway Epithelial Cell-Derived Colony Stimulating Factor-1 Promotes Allergen Sensitization. *Immunity*, 49(2), 275.

Kong X, et al. (2018) Brown Adipose Tissue Controls Skeletal Muscle Function via the Secretion of Myostatin. *Cell metabolism*, 28(4), 631.

Ise W, et al. (2018) T Follicular Helper Cell-Germinal Center B Cell Interaction Strength Regulates Entry into Plasma Cell or Recycling Germinal Center Cell Fate. *Immunity*, 48(4), 702.

Wu J, et al. (2017) Ablation of Transcription Factor IRF4 Promotes Transplant Acceptance by Driving Allogeneic CD4 $^+$ T Cell Dysfunction. *Immunity*, 47(6), 1114.

Yang Z, et al. (2016) Regulation of B cell fate by chronic activity of the IgE B cell receptor. *eLife*, 5.

Grajales-Reyes GE, et al. (2015) Batf3 maintains autoactivation of Irf8 for commitment of a CD8 α^+ conventional DC clonogenic progenitor. *Nature immunology*, 16(7), 708.