

Resource Summary Report

Generated by [RRID](#) on Jul 29, 2026

B6.129P2-Aicda^{tm1}(cre)Mnz/J

RRID:IMSR_JAX:007770

Type: Organism

Proper Citation

RRID:IMSR_JAX:007770

Organism Information

URL: <https://www.jax.org/strain/007770>

Proper Citation: RRID:IMSR_JAX:007770

Description: Mus musculus with name B6.129P2-Aicda^{tm1}(cre)Mnz/J from IMSR.

Species: Mus musculus

Synonyms: B6;129P-Aicda/J. B6;129P2-Aicda/J

Notes: gene symbol note: |activation-induced cytidine deaminase; mutant strain|congenic strain: |Aicda

Affected Gene: |activation-induced cytidine deaminase

Genomic Alteration: targeted mutation 1; Michel C Nussenzweig

Catalog Number: JAX:007770

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129P2-Aicda^{tm1}(cre)Mnz/J

Record Creation Time: 20250513T053704+0000

Record Last Update: 20260725T044416+0000

Ratings and Alerts

No rating or validation information has been found for B6.129P2-Aicda^{tm1}(cre)Mnz/J.

No alerts have been found for B6.129P2-Aicda^{tm1(cre)Mnz/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 24 mentions in open access literature.

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

Kim Y, et al. (2025) IL-21 shapes the B cell response in a context-dependent manner. Cell reports, 44(1), 115190.

Martinez F, et al. (2025) Follicular regulatory T cells promote experimental autoimmune encephalomyelitis by supporting B cell egress from germinal centers. Science translational medicine, 17(813), eady1268.

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.

Deng Q, et al. (2024) SMARCA4 is a haploinsufficient B cell lymphoma tumor suppressor that fine-tunes centrocyte cell fate decisions. Cancer cell.

Xu T, et al. (2024) Notch2 signaling governs activated B cells to form memory B cells. Cell reports, 43(7), 114454.

Wu M, et al. (2024) Innervation of nociceptor neurons in the spleen promotes germinal center responses and humoral immunity. Cell, 187(12), 2935.

Zhu X, et al. (2024) Rag-GTPase-TFEB/TFE3 axis controls B cell mitochondrial fitness and humoral immunity independent of mTORC1. Research square.

Bolonsky A, et al. (2024) IRF4 requires ARID1A to establish plasma cell identity in multiple myeloma. Cancer cell, 42(7), 1185.

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.

Rivera CE, et al. (2023) Intrinsic B cell TLR-BCR linked coengagement induces class-switched, hypermutated, neutralizing antibody responses in absence of T cells. Science advances, 9(17), eade8928.

Yazicioglu YF, et al. (2023) Dynamic mitochondrial transcription and translation in B cells control germinal center entry and lymphomagenesis. Nature immunology, 24(6), 991.

- Biram A, et al. (2022) Bacterial infection disrupts established germinal center reactions through monocyte recruitment and impaired metabolic adaptation. *Immunity*, 55(3), 442.
- MacLean AJ, et al. (2022) Secondary influenza challenge triggers resident memory B cell migration and rapid relocation to boost antibody secretion at infected sites. *Immunity*, 55(4), 718.
- 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.
- Wellford SA, et al. (2022) Mucosal plasma cells are required to protect the upper airway and brain from infection. *Immunity*, 55(11), 2118.
- Martos-Folgado I, et al. (2022) MDA-LDL vaccination induces athero-protective germinal-center-derived antibody responses. *Cell reports*, 41(2), 111468.
- Razzaghi R, et al. (2021) Compromised counterselection by FAS creates an aggressive subtype of germinal center lymphoma. *The Journal of experimental medicine*, 218(3).
- Trindade BC, et al. (2021) The cholesterol metabolite 25-hydroxycholesterol restrains the transcriptional regulator SREBP2 and limits intestinal IgA plasma cell differentiation. *Immunity*, 54(10), 2273.
- Morris AB, et al. (2020) Signaling through the Inhibitory Fc Receptor FcγRIIB Induces CD8+ T Cell Apoptosis to Limit T Cell Immunity. *Immunity*, 52(1), 136.
- Pirgova G, et al. (2020) Marginal zone SIGN-R1+ macrophages are essential for the maturation of germinal center B cells in the spleen. *Proceedings of the National Academy of Sciences of the United States of America*, 117(22), 12295.