

Resource Summary Report

Generated by [NIF](#) on Aug 25, 2026

B6.Cg-Tg(Mx1-cre)1Cgn/J

RRID:IMSR_JAX:003556

Type: Organism

Proper Citation

RRID:IMSR_JAX:003556

Organism Information

URL: <https://www.jax.org/strain/003556>

Proper Citation: RRID:IMSR_JAX:003556

Description: Mus musculus with name B6.Cg-Tg(Mx1-cre)1Cgn/J from IMSR.

Species: Mus musculus

Synonyms: C57BL/6J-Tg(Mx1-cre)1Cgn/J. C57BL/6J-TgN(Mx1-Cre)1Cgn

Notes: gene symbol note: |transgene insertion 1; University of Cologne|MX dynamin-like GTPase 1; mutant strain|congenic strain: |Tg(Mx1-cre)1Cgn|Mx1

Affected Gene: |transgene insertion 1; University of Cologne|MX dynamin-like GTPase 1

Genomic Alteration: transgene insertion 1; University of Cologne

Catalog Number: JAX:003556

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Tg(Mx1-cre)1Cgn/J

Record Creation Time: 20250513T053640+0000

Record Last Update: 20260815T050549+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Tg(Mx1-cre)1Cgn/J.

Warning: Warning. Researchers have noted that this genotype does not sufficiently model human acute myeloid leukemia.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 227 mentions in open access literature.

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

Chen R, et al. (2026) Aging-declined RNA exportation impairs hematopoietic stem cells by inducing R-loop. *Haematologica*, 111(1), 245.

Mullin C, et al. (2026) The hematopoietic stem cell MYB enhancer is essential for and recurrently amplified during T cell leukemogenesis. *The Journal of clinical investigation*, 136(1).

He Y, et al. (2026) ELK1 promotes the progress of myeloid leukemia by hindering the differentiation of neutrophils. *Experimental hematology & oncology*, 15(1), 9.

Shan H, et al. (2026) USP7 sustains hematopoietic stem cell homeostasis partially via PU.1 stabilization. *International journal of biological sciences*, 22(2), 1036.

Li H, et al. (2026) Targeting ZMIZ1 induces differentiation in acute myeloid leukemia via chromatin remodeling. *Signal transduction and targeted therapy*, 11(1).

Ng M, et al. (2026) M2 macrophage exosomes reverse heart failure post-myocardial infarction by suppressing type 1 interferon signaling in myeloid cells. *Molecular therapy : the journal of the American Society of Gene Therapy*, 34(1), 494.

López-Hernández L, et al. (2026) BCLAF1 links RNA splicing to ATF4-dependent metabolic adaptation in acute myeloid leukemia. *bioRxiv : the preprint server for biology*.

Huang F, et al. (2026) Nat10-mediated ac4C epitranscriptomics orchestrates hematopoietic stem/progenitor cell fate determination via translation control. *Science advances*, 12(2), eady0301.

Zhou J, et al. (2026) CHEK2 loss endows chemotherapy resistance to hematopoietic stem cells. *Leukemia*, 40(3), 511.

Vincelette ND, et al. (2026) Hematopoietic mosaic chromosomal alterations are pleiotropic drivers of inflammaging, multimorbidity, and mortality. *medRxiv : the preprint server for health sciences*.

Zhang L, et al. (2026) Bcl11a orchestrates multilineage integrity in aging hematopoiesis by regulating multipotent progenitor fate decisions. *Cell reports*, 45(7), 117716.

Diamond EL, et al. (2026) RAF-independent MEK mutations drive refractory histiocytic neoplasms but respond to ERK inhibition. *Cancer cell*, 44(1), 203.

Chen J, et al. (2026) Transcription factor Maf promotes expression of repressor Zeb2 to drive microglia development in primitive hematopoiesis. *Immunity*, 59(1), 48.

Su M, et al. (2026) FASN inactivation-induced progranulin (GRN) expression promotes lysosome-dependent cell death to suppress leukemogenesis. *Cell reports*, 45(3), 117042.

Liu M, et al. (2025) Mcm5 mutation leads to silencing of Stat1-bcl2 which accelerating apoptosis of immature T lymphocytes with DNA damage. *Cell death & disease*, 16(1), 84.

Gou J, et al. (2025) Targeting O-GlcNAcylated METTL3 impedes MDS/AML progression via diminishing SRSF1 m6A modification. *Molecular therapy : the journal of the American Society of Gene Therapy*, 33(12), 6146.

Comazzetto S, et al. (2025) Ascorbate deficiency increases quiescence and self-renewal in hematopoietic stem cells and multipotent progenitors. *Blood*, 145(1), 114.

Young KA, et al. (2025) Elevated mitochondrial membrane potential is a therapeutic vulnerability in Dnmt3a-mutant clonal hematopoiesis. *Nature communications*, 16(1), 3306.

Zhang N, et al. (2025) Jab1 promotes immune evasion and progression in acute myeloid leukemia models under oxidative stress. *The Journal of clinical investigation*, 135(20).

Belinsky G, et al. (2025) Modeling bone marrow microenvironment and hematopoietic dysregulation in Gaucher disease through VavCre mediated Gba deletion. *Human molecular genetics*, 34(11), 952.