Resource Summary Report

Generated by SPARC SAWG on Sep 4, 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: 20260829T044930+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 SPARC SAWG .

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.

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

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

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.

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

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.

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.

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

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.