

Resource Summary Report

Generated by PRECISE-TBI on Aug 2, 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: 20260801T050343+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 214 mentions in open access literature.

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

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).

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

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

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

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

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

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.

Li L, et al. (2025) EMP1 safeguards hematopoietic stem cells by suppressing sphingolipid metabolism and alleviating endoplasmic reticulum stress. *Nature communications*, 16(1), 6247.

Zhang C, et al. (2025) JAK2/STAT3 Signaling in Myeloid Cells Contributes to Obesity-Induced Inflammation and Insulin Resistance. *Cells*, 14(15).

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.

Gou J, et al. (2025) O-GlcNAcylated FTO promotes m6A modification of SOX4 to enhance MDS/AML cell proliferation. *Cell communication and signaling : CCS*, 23(1), 43.

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).

Huang J, et al. (2025) STING mediates increased self-renewal and lineage skewing in DNMT3A-mutated hematopoietic stem/progenitor cells. *Leukemia*, 39(4), 929.

Zhen T, et al. (2025) CBF β -SMMHC-driven leukemogenesis requires enhanced RUNX1-DNA binding affinity in mice. *The Journal of clinical investigation*, 135(19).

Eldfors S, et al. (2025) Sensitivity to ATR-CHK1 pathway inhibition in AML/MDS is enhanced by SRSF2 mutations and reduced by RUNX1 loss. *bioRxiv : the preprint server for biology*.

Tao H, et al. (2025) Setd2 ensures the establishment of a precise basal inflammatory state within murine hematopoietic stem/progenitor cells. *Cell death & disease*, 16(1), 799.

Pan Y, et al. (2025) Nuclear exosome targeting complex safeguards hematopoietic stem cell self-renewal and genomic integrity through resolving R loops. *Cell reports*, 44(12), 116650.

Saleiro D, et al. (2025) Loss of Function Mouse Models Reveal a Novel Regulatory Function for ULK1 in Myeloproliferative Neoplasms. *Molecular and cellular biology*, 45(9), 395.

Hong J, et al. (2025) PSPC1 exerts an oncogenic role in AML by regulating a leukemic transcription program in cooperation with PU.1. *Cell stem cell*, 32(3), 463.

Xie Y, et al. (2024) Interplay of IGF1R and estrogen signaling regulates hematopoietic stem and progenitor cells. *bioRxiv : the preprint server for biology*.