

Resource Summary Report

Generated by [nidm-terms](#) on Sep 5, 2026

B6(Cg)-Tet2^{tm1.2Rao}/J

RRID:IMSR_JAX:023359

Type: Organism

Proper Citation

RRID:IMSR_JAX:023359

Organism Information

URL: <https://www.jax.org/strain/023359>

Proper Citation: RRID:IMSR_JAX:023359

Description: Mus musculus with name B6(Cg)-Tet2^{tm1.2Rao}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: tet methylcytosine dioxygenase 2; mutant strain|congenic strain: Tet2

Affected Gene: tet methylcytosine dioxygenase 2

Genomic Alteration: targeted mutation 1.2; Anjana Rao

Catalog Number: JAX:023359

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6(Cg)-Tet2^{tm1.2Rao}/J

Record Creation Time: 20250513T053747+0000

Record Last Update: 20260905T044528+0000

Ratings and Alerts

No rating or validation information has been found for B6(Cg)-Tet2^{tm1.2Rao}/J.

No alerts have been found for B6(Cg)-Tet2^{tm1.2Rao}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 15 mentions in open access literature.

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

Herbrich S, et al. (2026) TET2-mutant clonal hematopoiesis enhances macrophage antigen presentation and improves immune checkpoint therapy in solid tumors. *Cancer cell*, 44(1), 187.

Li S, et al. (2026) B cell TET2 recruits OGT for nuclear TET2 and H2B O-GlcNAcylation to drive AID and BLIMP-1 expression and maturation of the antibody response. *Cell reports*, 45(6), 117370.

Jenkins MT, et al. (2025) TET2-loss enhances immediate and time-resolved interferon-?? signaling responses across myeloid differentiation. *Experimental hematology*, 144, 104727.

Matatall KA, et al. (2025) TET2-mutant myeloid cells mitigate Alzheimer's disease progression via CNS infiltration and enhanced phagocytosis in mice. *Cell stem cell*, 32(8), 1285.

Ben-Crentsil NA, et al. (2024) RNA Shielding of p65 Is Required to Potentiate Oncogenic Inflammation in TET2-Mutated Clonal Hematopoiesis. *Cancer discovery*, 14(12), 2509.

Gioulbasani M, et al. (2024) TET proteins regulate Drosha expression and impact microRNAs in iNKT cells. *Frontiers in immunology*, 15, 1440044.

Gioulbasani M, et al. (2024) TET proteins regulate Drosha expression and impact microRNAs in iNKT cells. *bioRxiv : the preprint server for biology*.

Gioulbasani M, et al. (2024) Concomitant loss of TET2 and TET3 results in T cell expansion and genomic instability in mice. *Communications biology*, 7(1), 1606.

Li Y, et al. (2023) TET2-mediated mRNA demethylation regulates leukemia stem cell homing and self-renewal. *Cell stem cell*, 30(8), 1072.

Zhao H, et al. (2022) Opioid receptor signaling suppresses leukemia through both catalytic and non-catalytic functions of TET2. *Cell reports*, 38(4), 110253.

Heyde A, et al. (2021) Increased stem cell proliferation in atherosclerosis accelerates clonal hematopoiesis. *Cell*, 184(5), 1348.

Ueda K, et al. (2021) MDMX acts as a pervasive preleukemic-to-acute myeloid leukemia transition mechanism. *Cancer cell*, 39(4), 529.

Fuster JJ, et al. (2020) TET2-Loss-of-Function-Driven Clonal Hematopoiesis Exacerbates Experimental Insulin Resistance in Aging and Obesity. *Cell reports*, 33(4), 108326.

Sun J, et al. (2018) SIRT1 Activation Disrupts Maintenance of Myelodysplastic Syndrome Stem and Progenitor Cells by Restoring TET2 Function. *Cell stem cell*, 23(3), 355.

Pan W, et al. (2017) The DNA Methylcytosine Dioxygenase Tet2 Sustains Immunosuppressive Function of Tumor-Infiltrating Myeloid Cells to Promote Melanoma Progression. *Immunity*, 47(2), 284.