

Resource Summary Report

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B6;129S4-Dnmt3a^{tm3.1Enl} Dnmt3b^{tm5.1Enl}/Mmnc

RRID:MMRRC_029885-UNC

Type: Organism

Proper Citation

RRID:MMRRC_029885-UNC

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=29885

Proper Citation: RRID:MMRRC_029885-UNC

Description: Mus musculus with name B6;129S4-Dnmt3a^{tm3.1Enl} Dnmt3b^{tm5.1Enl}/Mmnc from MMRRC.

Species: Mus musculus

Notes: Research areas: Cancer, Developmental Biology, Neurobiology, Reproduction; Mutation Type: Targeted Mutation ; Collection:

Phenotype: male infertility [MP:0001925] female infertility [MP:0001926] decreased testis weight [MP:0004852] azoospermia [MP:0005159]

Affected Gene: |Dnmt3a|Dnmt3b|

Catalog Number: 029885-UNC

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:15215868](https://pubmed.ncbi.nlm.nih.gov/15215868/)

Alternate IDs: MMRRC_29885-UNC, MMRRC_029885, MMRRC_29885

Organism Name: B6;129S4-Dnmt3a^{tm3.1Enl} Dnmt3b^{tm5.1Enl}/Mmnc

Record Creation Time: 20230308T055117+0000

Record Last Update: 20250419T223906+0000

Ratings and Alerts

No rating or validation information has been found for B6;129S4-*Dnmt3a*^{tm3.1Enl} *Dnmt3b*^{tm5.1Enl}/Mmnc.

No alerts have been found for B6;129S4-*Dnmt3a*^{tm3.1Enl} *Dnmt3b*^{tm5.1Enl}/Mmnc.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Mutant Mouse Resource and Research Center (MMRRC)

Usage and Citation Metrics

We found 3 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Li Y, et al. (2024) Rapid and accurate remethylation of DNA in *Dnmt3a*-deficient hematopoietic cells with restoration of DNMT3A activity. *Science advances*, 10(5), eadk8598.

Wang S, et al. (2023) Epigenetic Regulation of Hepatic Lipid Metabolism by DNA Methylation. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 10(20), e2206068.

Li F, et al. (2021) Epigenetic interaction between UTX and DNMT1 regulates diet-induced myogenic remodeling in brown fat. *Nature communications*, 12(1), 6838.