

Resource Summary Report

Generated by [NIF](#) on Jul 31, 2026

FH-Tet2-pEF

RRID:Addgene_41710

Type: Plasmid

Proper Citation

RRID:Addgene_41710

Plasmid Information

URL: <http://www.addgene.org/41710>

Proper Citation: RRID:Addgene_41710

Insert Name: tet methylcytosine dioxygenase 2

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:21057493](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:6174; Vector Backbone:pEF1a; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: FH-Tet2-pEF

Record Creation Time: 20220422T222216+0000

Record Last Update: 20260725T074655+0000

Ratings and Alerts

No rating or validation information has been found for FH-Tet2-pEF.

No alerts have been found for FH-Tet2-pEF.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

Murcott B, et al. (2025) Colorectal cancer progression to metastasis is associated with dynamic genome-wide biphasic 5-hydroxymethylcytosine accumulation. BMC biology, 23(1), 100.

Liu Y, et al. (2023) TET2 is recruited by CREB to promote Cebpb, Cebpa, and Pparg transcription by facilitating hydroxymethylation during adipocyte differentiation. iScience, 26(11), 108312.

Wu BK, et al. (2022) YAP induces an oncogenic transcriptional program through TET1-mediated epigenetic remodeling in liver growth and tumorigenesis. Nature genetics, 54(8), 1202.

Arguello AE, et al. (2022) Reactivity-dependent profiling of RNA 5-methylcytidine dioxygenases. Nature communications, 13(1), 4176.

Arand J, et al. (2022) Tet enzymes are essential for early embryogenesis and completion of embryonic genome activation. EMBO reports, 23(2), e53968.

Huang Z, et al. (2021) The chromosomal protein SMCHD1 regulates DNA methylation and the 2c-like state of embryonic stem cells by antagonizing TET proteins. Science advances, 7(4).

Zhang T, et al. (2019) Phosphorylation of TET2 by AMPK is indispensable in myogenic differentiation. Epigenetics & chromatin, 12(1), 32.

Fukunaga T, et al. (2018) Methylation dependent down-regulation of G0S2 leads to suppression of invasion and improved prognosis of IDH1-mutant glioma. PloS one, 13(11), e0206552.

Burr S, et al. (2018) Oxygen gradients can determine epigenetic asymmetry and cellular differentiation via differential regulation of Tet activity in embryonic stem cells. Nucleic acids research, 46(3), 1210.