

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.