

Resource Summary Report

Generated by [dkNET](#) on Aug 29, 2026

MLM3739

RRID:Addgene_49959

Type: Plasmid

Proper Citation

RRID:Addgene_49959

Plasmid Information

URL: <http://www.addgene.org/49959>

Proper Citation: RRID:Addgene_49959

Insert Name: 3x Flag Tet1CDmut HB-4

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:24108092](#)

Vector Backbone Description: Backbone Marker:Joung lab (Addgene plasmid #49238); Vector Backbone:pJFA345D4; Vector Types:TALEN; Bacterial Resistance:Ampicillin

Comments: TALE target site is: TCTTCAATATGCTTACCAAG. Note that due to the TET1 mutations, this plasmid neither demethylated the proximal CpGs nor activated HBB gene expression. See Supplementary Figure 13 of associated publication for amino acid sequences of backbone and TALE repeat array.

Plasmid Name: MLM3739

Relevant Mutation: catalytic domain of TET1 inactive (H1671Y and D1673A mutations)

Record Creation Time: 20220422T222257+0000

Record Last Update: 20260829T080629+0000

Ratings and Alerts

No rating or validation information has been found for MLM3739.

No alerts have been found for MLM3739.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Liu XS, et al. (2018) Rescue of Fragile X Syndrome Neurons by DNA Methylation Editing of the FMR1 Gene. Cell, 172(5), 979.

Liu XS, et al. (2016) Editing DNA Methylation in the Mammalian Genome. Cell, 167(1), 233.