

# Resource Summary Report

Generated by [kravitz2](#) on Aug 11, 2026

## MLM3739

RRID:Addgene\_49959

Type: Plasmid

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### Proper Citation

RRID:Addgene\_49959

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### 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:** 20260808T081752+0000

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### Ratings and Alerts

No rating or validation information has been found for MLM3739.

No alerts have been found for MLM3739.

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## Data and Source Information

**Source:** [Addgene](#)

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## Usage and Citation Metrics

We found 2 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [kravitz2](#) .

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.