

Resource Summary Report

Generated by [kravitz2](#) on Aug 10, 2026

3XMEF2-luc

RRID:Addgene_32967

Type: Plasmid

Proper Citation

RRID:Addgene_32967

Plasmid Information

URL: <http://www.addgene.org/32967>

Proper Citation: RRID:Addgene_32967

Insert Name: MEF2 binding sites

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Vector Backbone Description: Backbone Marker:Promega; Backbone Size:5000; Vector Backbone:pGL3-promoter modified; Vector Types:Mammalian Expression, Luciferase; Bacterial Resistance:Ampicillin

Comments: This plasmid was cloned from pFOS WT-GL3 (Addgene #11983), where the human c-fos promoter was removed and replaced with 4 MEF2 sites. See author's map for restriction site/MCS details.

Plasmid Name: 3XMEF2-luc

Record Creation Time: 20220422T222143+0000

Record Last Update: 20260808T081540+0000

Ratings and Alerts

No rating or validation information has been found for 3XMEF2-luc.

No alerts have been found for 3XMEF2-luc.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 19 mentions in open access literature.

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

Cortolezzis Y, et al. (2025) Post-transcriptional control of KRAS: functional roles of 5'UTR RNA G-quadruplexes, long noncoding RNA, and hnRNPA1. *Nucleic acids research*, 53(17).

de Mattos K, et al. (2025) Identification of MEF2A, MEF2C, and MEF2D interactomes in basal and Fsk-stimulated mouse MA-10 Leydig cells. *Andrology*.

Kim YJ, et al. (2023) The transcription factor Mef2d regulates B:T synapse-dependent GC-TFH differentiation and IL-21-mediated humoral immunity. *Science immunology*, 8(81), eadf2248.

de Mattos K, et al. (2023) ERK5 Cooperates With MEF2C to Regulate Nr4a1 Transcription in MA-10 and MLTC-1 Leydig Cells. *Endocrinology*, 164(9).

Neyroud D, et al. (2021) FoxP1 is a transcriptional repressor associated with cancer cachexia that induces skeletal muscle wasting and weakness. *Journal of cachexia, sarcopenia and muscle*, 12(2), 421.

Ortega-Muelas M, et al. (2021) ERK5 signalling pathway is a novel target of sorafenib: Implication in EGF biology. *Journal of cellular and molecular medicine*, 25(22), 10591.

Niemann B, et al. (2020) CTRP9 Mediates Protective Effects in Cardiomyocytes via AMPK- and Adiponectin Receptor-Mediated Induction of Anti-Oxidant Response. *Cells*, 9(5).

Schader T, et al. (2020) Oxidation of HDAC4 by Nox4-derived H₂O₂ maintains tube formation by endothelial cells. *Redox biology*, 36, 101669.

Judge SM, et al. (2020) MEF2c-Dependent Downregulation of Myocilin Mediates Cancer-Induced Muscle Wasting and Associates with Cachexia in Patients with Cancer. *Cancer research*, 80(9), 1861.

Mukai J, et al. (2019) Recapitulation and Reversal of Schizophrenia-Related Phenotypes in Setd1a-Deficient Mice. *Neuron*, 104(3), 471.

Wang C, et al. (2019) Methyltransferase-like 21c methylates and stabilizes the heat shock protein Hspa8 in type I myofibers in mice. *The Journal of biological chemistry*, 294(37), 13718.

Tusa I, et al. (2018) ERK5 is activated by oncogenic BRAF and promotes melanoma growth. *Oncogene*, 37(19), 2601.

Duran J, et al. (2017) Ca²⁺/Calmodulin-Dependent Protein Kinase II and Androgen Signaling Pathways Modulate MEF2 Activity in Testosterone-Induced Cardiac Myocyte Hypertrophy. *Frontiers in pharmacology*, 8, 604.

He K, et al. (2017) Serine/Threonine Kinase 40 (Stk40) Functions as a Novel Regulator of Skeletal Muscle Differentiation. *The Journal of biological chemistry*, 292(1), 351.

Trazzi S, et al. (2016) HDAC4: a key factor underlying brain developmental alterations in CDKL5 disorder. *Human molecular genetics*, 25(18), 3887.

Gu Z, et al. (2016) Genomic analyses identify recurrent MEF2D fusions in acute lymphoblastic leukaemia. *Nature communications*, 7, 13331.

Jain P, et al. (2015) Myocyte enhancer factor (MEF)-2 plays essential roles in T-cell transformation associated with HTLV-1 infection by stabilizing complex between Tax and CREB. *Retrovirology*, 12, 23.

Bai XL, et al. (2015) Myocyte enhancer factor 2C regulation of hepatocellular carcinoma via vascular endothelial growth factor and Wnt/??-catenin signaling. *Oncogene*, 34(31), 4089.

Gagan J, et al. (2012) Notch3 and Mef2c proteins are mutually antagonistic via Mkp1 protein and miR-1/206 microRNAs in differentiating myoblasts. *The Journal of biological chemistry*, 287(48), 40360.