

Resource Summary Report

Generated by [kravitz2](#) on Aug 6, 2026

ATF4 3: Mouse ATF4 (CHOP11/cATF), 5'UTR and AUG-luc

RRID:Addgene_21850

Type: Plasmid

Proper Citation

RRID:Addgene_21850

Plasmid Information

URL: <http://www.addgene.org/21850>

Proper Citation: RRID:Addgene_21850

Insert Name: ATF4

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:11106749](#)

Vector Backbone Description: Backbone Marker:Promega; Backbone Size:5010; Vector Backbone:pGL3; Vector Types:Mammalian Expression, Luciferase; Bacterial Resistance:Ampicillin

Comments: Addgene sequencing results show 2 mismatches with author's sequence and NCBI sequence for ATF4. Mouse ATF4 5' UTR and AUG fused to Luciferase driven by the TK promoter in a pGL3 backbone TK.mATF4.UTR.Luc.pGL3 (5202nt, predicted). TK promoter: 58..184; mATF4 5'UTR and AUG: 185..470; luciferase coding sequence: 472..2121; poly A signals: 2156..2377

Plasmid Name: ATF4 3: Mouse ATF4 (CHOP11/cATF), 5'UTR and AUG-luc

Relevant Mutation: ATF4 5' UTR and AUG fused to Luciferase driven by the TK promoter

Record Creation Time: 20220422T222057+0000

Record Last Update: 20260801T081008+0000

Ratings and Alerts

No rating or validation information has been found for ATF4 3: Mouse ATF4 (CHOP11/cATF), 5'UTR and AUG-luc.

No alerts have been found for ATF4 3: Mouse ATF4 (CHOP11/cATF), 5'UTR and AUG-luc.

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 [kravitz2](#) .

Jasani N, et al. (2025) PHGDH Induction by MAPK Is Essential for Melanoma Formation and Creates an Actionable Metabolic Vulnerability. *Cancer research*, 85(2), 314.

Jasani N, et al. (2024) MAPK-mediated PHGDH induction is essential for melanoma formation and represents an actionable vulnerability. *bioRxiv : the preprint server for biology*.

Chen S, et al. (2019) Trimethylamine N-Oxide Binds and Activates PERK to Promote Metabolic Dysfunction. *Cell metabolism*, 30(6), 1141.

Schaeffer C, et al. (2019) Autosomal Dominant Tubulointerstitial Kidney Disease with Adult Onset due to a Novel Renin Mutation Mapping in the Mature Protein. *Scientific reports*, 9(1), 11601.

Jeong MH, et al. (2019) PRMT1 suppresses ATF4-mediated endoplasmic reticulum response in cardiomyocytes. *Cell death & disease*, 10(12), 903.

Schaeffer C, et al. (2017) Mutant uromodulin expression leads to altered homeostasis of the endoplasmic reticulum and activates the unfolded protein response. *PloS one*, 12(4), e0175970.

Cagalinec M, et al. (2016) Role of Mitochondrial Dynamics in Neuronal Development: Mechanism for Wolfram Syndrome. *PLoS biology*, 14(7), e1002511.

Ampofo E, et al. (2013) Functional interaction of protein kinase CK2 and activating transcription factor 4 (ATF4), a key player in the cellular stress response. *Biochimica et biophysica acta*, 1833(3), 439.

Schneider CC, et al. (2012) CK2 regulates ATF4 and CHOP transcription within the cellular stress response signalling pathway. *Cellular signalling*, 24(9), 1797.