

Resource Summary Report

Generated by [RRID](#) on Sep 1, 2026

[pRK-ATF4](#)

RRID:Addgene_26114

Type: Plasmid

Proper Citation

RRID:Addgene_26114

Plasmid Information

URL: <http://www.addgene.org/26114>

Proper Citation: RRID:Addgene_26114

Insert Name: ATF4

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:19164757](#)

Vector Backbone Description: Backbone Marker:Dr. Hongbin Shu; Vector Backbone:pRK5-A20 (TNFAIP3); Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pRK-ATF4

Record Creation Time: 20220422T222116+0000

Record Last Update: 20260829T080256+0000

Ratings and Alerts

No rating or validation information has been found for pRK-ATF4.

No alerts have been found for pRK-ATF4.

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 [RRID](#) .

Criscuolo D, et al. (2026) KRAS-mediated CCDC6 degradation drives xCT upregulation and ferroptosis evasion. *Apoptosis : an international journal on programmed cell death*, 31(8).

Du L, et al. (2023) Inhibition of LSD1 induces ferroptosis through the ATF4-xCT pathway and shows enhanced anti-tumor effects with ferroptosis inducers in NSCLC. *Cell death & disease*, 14(11), 716.

Gouveia Roque C, et al. (2023) CREB3L2-ATF4 heterodimerization defines a transcriptional hub of Alzheimer's disease gene expression linked to neuropathology. *Science advances*, 9(9), eadd2671.

Zhang Y, et al. (2023) RASSF1 is identified by transcriptome coordination analysis as a target of ATF4. *FEBS open bio*, 13(3), 556.

Yamada Y, et al. (2022) Wogonin, a Compound in *Scutellaria baicalensis*, Activates ATF4-FGF21 Signaling in Mouse Hepatocyte AML12 Cells. *Nutrients*, 14(19).

Ha DP, et al. (2020) Insulin-like growth factor 1-receptor signaling stimulates GRP78 expression through the PI3K/AKT/mTOR/ATF4 axis. *Cellular signalling*, 75, 109736.

Burton TD, et al. (2020) The gene for the lysosomal protein LAMP3 is a direct target of the transcription factor ATF4. *The Journal of biological chemistry*, 295(21), 7418.

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

Xia Y, et al. (2019) Metabolic Reprogramming by MYCN Confers Dependence on the Serine-Glycine-One-Carbon Biosynthetic Pathway. *Cancer research*, 79(15), 3837.

Hitzel J, et al. (2018) Oxidized phospholipids regulate amino acid metabolism through MTHFD2 to facilitate nucleotide release in endothelial cells. *Nature communications*, 9(1), 2292.

Linares JF, et al. (2017) ATF4-Induced Metabolic Reprograming Is a Synthetic Vulnerability of the p62-Deficient Tumor Stroma. *Cell metabolism*, 26(6), 817.

Gupta A, et al. (2016) NCOA3 coactivator is a transcriptional target of XBP1 and regulates PERK-eIF2 α -ATF4 signalling in breast cancer. *Oncogene*, 35(45), 5860.

Masuda M, et al. (2016) Activating transcription factor-4 promotes mineralization in vascular smooth muscle cells. *JCI insight*, 1(18), e88646.

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

Wang S, et al. (2015) ATF4 Gene Network Mediates Cellular Response to the Anticancer PAD Inhibitor YW3-56 in Triple-Negative Breast Cancer Cells. *Molecular cancer*

therapeutics, 14(4), 877.

Gowen BG, et al. (2015) A forward genetic screen reveals novel independent regulators of ULBP1, an activating ligand for natural killer cells. *eLife*, 4.

Sujobert P, et al. (2015) Co-activation of AMPK and mTORC1 Induces Cytotoxicity in Acute Myeloid Leukemia. *Cell reports*, 11(9), 1446.

Gupta A, et al. (2015) Assays for induction of the unfolded protein response and selective activation of the three major pathways. *Methods in molecular biology* (Clifton, N.J.), 1292, 19.

De Sousa-Coelho AL, et al. (2012) Activating transcription factor 4-dependent induction of FGF21 during amino acid deprivation. *The Biochemical journal*, 443(1), 165.