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.

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

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.

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??-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.