

Resource Summary Report

Generated by [RRID](#) on Aug 19, 2026

pcDNA3-HA-ERK2 WT

RRID:Addgene_8974

Type: Plasmid

Proper Citation

RRID:Addgene_8974

Plasmid Information

URL: <http://www.addgene.org/8974>

Proper Citation: RRID:Addgene_8974

Insert Name: ERK2

Organism: Rattus norvegicus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:16051177](#)

Vector Backbone Description: Backbone Size:5400; Vector Backbone:pcDNA3.1; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pcDNA3-HA-ERK2 WT

Record Creation Time: 20220422T222610+0000

Record Last Update: 20260815T082200+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3-HA-ERK2 WT.

No alerts have been found for pcDNA3-HA-ERK2 WT.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 17 mentions in open access literature.

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

Roy R, et al. (2026) ERK-mTOR crosstalk suppresses autophagy and upregulates proteasomal degradation pathway to confer chronic myeloid leukemia cells resistant to imatinib. *Experimental hematology*, 154, 105330.

Bai S, et al. (2025) EGFL6 is a novel HER3 ligand, inducing HER3/integrin heterodimers to induce pERK centrosomal deposition and therapeutic resistance. *Neoplasia (New York, N.Y.)*, 70, 101246.

Paul T, et al. (2021) H₂O₂ mediated FLIP and XIAP down-regulation involves increased ITCH expression and ERK-Akt crosstalk in imatinib resistant Chronic Myeloid Leukemia cell line K562. *Free radical biology & medicine*, 166, 265.

Xie M, et al. (2021) Sublytic C5b-9 induces glomerular mesangial cell proliferation via ERK1/2-dependent SOX9 phosphorylation and acetylation by enhancing Cyclin D1 in rat Thy-1 nephritis. *Experimental & molecular medicine*, 53(4), 572.

Du Q, et al. (2020) High Expression of Integrin $\alpha 3$ Predicts Poor Prognosis and Promotes Tumor Metastasis and Angiogenesis by Activating the c-Src/Extracellular Signal-Regulated Protein Kinase/Focal Adhesion Kinase Signaling Pathway in Cervical Cancer. *Frontiers in oncology*, 10, 36.

Bunda S, et al. (2020) c-Src Phosphorylates and Inhibits the Function of the CIC Tumor Suppressor Protein. *Molecular cancer research : MCR*, 18(5), 774.

Bunda S, et al. (2019) CIC protein instability contributes to tumorigenesis in glioblastoma. *Nature communications*, 10(1), 661.

Hiyama A, et al. (2018) CCN family member 2/connective tissue growth factor (CCN2/CTGF) is regulated by Wnt- β -catenin signaling in nucleus pulposus cells. *Arthritis research & therapy*, 20(1), 217.

Asensio-Juan E, et al. (2017) The histone demethylase PHF8 is a molecular safeguard of the IFN γ response. *Nucleic acids research*, 45(7), 3800.

Nikolaienko O, et al. (2017) Stimulus-evoked ERK-dependent phosphorylation of activity-regulated cytoskeleton-associated protein (Arc) regulates its neuronal subcellular localization. *Neuroscience*, 360, 68.

Hiyama A, et al. (2016) CCAAT/enhancer binding protein β regulates the expression of tumor necrosis factor- α in the nucleus pulposus cells. *Journal of orthopaedic research : official publication of the Orthopaedic Research Society*, 34(5), 865.

Huang H, et al. (2014) Extracellular signal-regulated kinase activation during cardiac hypertrophy reduces sarcoplasmic/endoplasmic reticulum calcium ATPase 2 (SERCA2) transcription. *Journal of molecular and cellular cardiology*, 75, 58.

Heckler MM, et al. (2014) ERK/MAPK regulates ERR α expression, transcriptional activity and receptor-mediated tamoxifen resistance in ER $^{+}$ breast cancer. *The FEBS journal*,

281(10), 2431.

Martinez-Lopez N, et al. (2013) Autophagy proteins regulate ERK phosphorylation. *Nature communications*, 4, 2799.

Tyagarajan SK, et al. (2013) Extracellular signal-regulated kinase and glycogen synthase kinase 3 β regulate gephyrin postsynaptic aggregation and GABAergic synaptic function in a calpain-dependent mechanism. *The Journal of biological chemistry*, 288(14), 9634.

Bose AK, et al. (2013) A high-throughput assay for phosphoprotein-specific phosphatase activity in cellular extracts. *Molecular & cellular proteomics : MCP*, 12(3), 797.

Liu F, et al. (2013) MicroRNA-21 promotes the proliferation and inhibits apoptosis in Eca109 via activating ERK1/2/MAPK pathway. *Molecular and cellular biochemistry*, 381(1-2), 115.