Resource Summary Report

Generated by RRID on Aug 30, 2026

pcDNA3-EGFP-C4-Nrf2

RRID:Addgene_21549
Type: Plasmid

Proper Citation

RRID:Addgene_21549

Plasmid Information

URL: http://www.addgene.org/21549

Proper Citation: RRID:Addgene_21549

Insert Name: nuclear factor (erythroid-derived 2)-like 2

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: PMID:15601839

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:6112; Vector Backbone:pcDNA3; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pcDNA3-EGFP-C4-Nrf2

Record Creation Time: 20220422T222055+0000

Record Last Update: 20260829T080209+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3-EGFP-C4-Nrf2.

No alerts have been found for pcDNA3-EGFP-C4-Nrf2.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 30 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID .

Tomomi I, et al. (2024) Activation of Nuclear Factor Erythroid 2-Related Factor 2 Transcriptionally Upregulates Ectonucleotide Pyrophosphatase/Phosphodiesterase 1 Expression and Inhibits Ectopic Calcification in Mice. Antioxidants (Basel, Switzerland), 13(8).

Liu Y, et al. (2023) Protein Kinase B (PKB/AKT) Protects IDH-Mutated Glioma from Ferroptosis via Nrf2. Clinical cancer research : an official journal of the American Association for Cancer Research, 29(7), 1305.

Tyagi R, et al. (2023) Inositol polyphosphate multikinase modulates redox signaling through nuclear factor erythroid 2-related factor 2 and glutathione metabolism. iScience, 26(7), 107199.

Issac J, et al. (2023) RXR agonist, Bexarotene, effectively reduces drug resistance via regulation of RFX1 in embryonic carcinoma cells. Biochimica et biophysica acta. Molecular cell research, 1870(7), 119510.

Dutta A, et al. (2022) PLK-1 Interacting Checkpoint Helicase, PICH, Mediates Cellular Oxidative Stress Response. Epigenomes, 6(4).

Zhang W, et al. (2021) Rosmarinic acid prevents refractory bacterial pneumonia through regulating Keap1/Nrf2-mediated autophagic pathway and mitochondrial oxidative stress. Free radical biology & medicine, 168, 247.

Gopallawa I, et al. (2021) Small-molecule Akt-activation in airway cells induces NO production and reduces IL-8 transcription through Nrf-2. Respiratory research, 22(1), 267.

Waghela BN, et al. (2021) Upregulation of NOX-2 and Nrf-2 Promotes 5-Fluorouracil Resistance of Human Colon Carcinoma (HCT-116) Cells. Biochemistry. Biokhimiia, 86(3), 262.

Tang X, et al. (2020) Blockade of Glutathione Metabolism in IDH1-Mutated Glioma. Molecular cancer therapeutics, 19(1), 221.

Matzinger M, et al. (2020) AMPK leads to phosphorylation of the transcription factor Nrf2, tuning transactivation of selected target genes. Redox biology, 29, 101393.

Fischhuber K, et al. (2020) AMPK Enhances Transcription of Selected Nrf2 Target Genes via Negative Regulation of Bach1. Frontiers in cell and developmental biology, 8, 628.

Gai C, et al. (2020) MT1DP loaded by folate-modified liposomes sensitizes erastin-induced ferroptosis via regulating miR-365a-3p/NRF2 axis in non-small cell lung cancer cells. Cell death & disease, 11(9), 751.

Czaniecki C, et al. (2019) Axonal pathology in hPSC-based models of Parkinson's disease results from loss of Nrf2 transcriptional activity at the Map1b gene locus. Proceedings of the National Academy of Sciences of the United States of America, 116(28), 14280.

Khan NM, et al. (2018) Nrf2/ARE pathway attenuates oxidative and apoptotic response in human osteoarthritis chondrocytes by activating ERK1/2/ELK1-P70S6K-P90RSK signaling axis. Free radical biology & medicine, 116, 159.

Hanmer KL, et al. (2018) Peroxidasin is a novel target of the redox-sensitive transcription factor Nrf2. Gene, 674, 104.

Yang T, et al. (2018) Brain ischemic preconditioning protects against ischemic injury and preserves the blood-brain barrier via oxidative signaling and Nrf2 activation. Redox biology, 17, 323.

Milanese C, et al. (2018) Mitochondrial Complex I Reversible S-Nitrosation Improves Bioenergetics and Is Protective in Parkinson's Disease. Antioxidants & redox signaling, 28(1), 44.

Gali?? M, et al. (2018) Mild ozonisation activates antioxidant cell response by the Keap1/Nrf2 dependent pathway. Free radical biology & medicine, 124, 114.

Jena KK, et al. (2018) TRIM16 controls assembly and degradation of protein aggregates by modulating the p62-NRF2 axis and autophagy. The EMBO journal, 37(18).

Ngo HKC, et al. (2017) Nrf2 Mutagenic Activation Drives Hepatocarcinogenesis. Cancer research, 77(18), 4797.