

Resource Summary Report

Generated by [NIF](#) on Jul 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: 20260725T074426+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 [NIF](#) .

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.

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.

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.

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.