

Resource Summary Report

Generated by [RRID](#) on Aug 25, 2026

[pcDNA3.1-Peredox-mCherry](#)

RRID:Addgene_32383

Type: Plasmid

Proper Citation

RRID:Addgene_32383

Plasmid Information

URL: <http://www.addgene.org/32383>

Proper Citation: RRID:Addgene_32383

Insert Name: Peredox-mCherry

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:21982714](#)

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

Plasmid Name: pcDNA3.1-Peredox-mCherry

Record Creation Time: 20220422T222140+0000

Record Last Update: 20260815T081340+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3.1-Peredox-mCherry.

No alerts have been found for pcDNA3.1-Peredox-mCherry.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 21 mentions in open access literature.

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

Feng T, et al. (2025) Fructose and glucose from sugary drinks enhance colorectal cancer metastasis via SORD. *Nature metabolism*, 7(10), 2018.

Erdem A, et al. (2025) Lactate dehydrogenase A-coupled NAD⁺ regeneration is critical for acute myeloid leukemia cell survival. *bioRxiv : the preprint server for biology*.

Park CH, et al. (2025) Cold-inducible GOT1 activates the malate-aspartate shuttle in brown adipose tissue to support fuel preference for fatty acids. *Cell reports*, 44(7), 115888.

Erdem A, et al. (2025) Lactate dehydrogenase A-coupled NAD⁺ regeneration is critical for acute myeloid leukemia cell survival. *Cancer & metabolism*, 13(1), 22.

Yang L, et al. (2023) Nicotine rebalances NAD⁺ homeostasis and improves aging-related symptoms in male mice by enhancing NAMPT activity. *Nature communications*, 14(1), 900.

Li J, et al. (2023) Metabolic modulation of CtBP dimeric status impacts the repression of DNA damage repair genes and the platinum sensitivity of ovarian cancer. *International journal of biological sciences*, 19(7), 2081.

Markhard AL, et al. (2022) A genetically encoded system for oxygen generation in living cells. *Proceedings of the National Academy of Sciences of the United States of America*, 119(43), e2207955119.

Johanns M, et al. (2022) Inhibition of basal and glucagon-induced hepatic glucose production by 991 and other pharmacological AMPK activators. *The Biochemical journal*, 479(12), 1317.

Dwenger MM, et al. (2022) Pyridine nucleotide redox potential in coronary smooth muscle couples myocardial blood flow to cardiac metabolism. *Nature communications*, 13(1), 2051.

Koshenov Z, et al. (2022) Citrin mediated metabolic rewiring in response to altered basal subcellular Ca²⁺ homeostasis. *Communications biology*, 5(1), 76.

Dhoundiyal A, et al. (2022) Glycerol-3-Phosphate Shuttle Is a Backup System Securing Metabolic Flexibility in Neurons. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 42(39), 7339.

Kealey J, et al. (2022) Effect of TP53 deficiency and KRAS signaling on the bioenergetics of colon cancer cells in response to different substrates: A single cell study. *Frontiers in cell and developmental biology*, 10, 893677.

Gouriou Y, et al. (2020) ANT2-Mediated ATP Import into Mitochondria Protects against Hypoxia Lethal Injury. *Cells*, 9(12).

Maloney DM, et al. (2020) Optimized OPA1 Isoforms 1 and 7 Provide Therapeutic Benefit in Models of Mitochondrial Dysfunction. *Frontiers in neuroscience*, 14, 571479.

Sugasawa T, et al. (2019) Detection of Transgenes in Gene Delivery Model Mice by Adenoviral Vector Using ddPCR. *Genes*, 10(6).

Bi G, et al. (2018) Up-regulation of SFTPB expression and attenuation of acute lung injury by pulmonary epithelial cell-specific NAMPT knockdown. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 32(7), 3583.

Kang D, et al. (2018) Pyoverdine, a siderophore from *Pseudomonas aeruginosa*, translocates into *C. elegans*, removes iron, and activates a distinct host response. *Virulence*, 9(1), 804.

Schnepp PM, et al. (2017) GAD1 Upregulation Programs Aggressive Features of Cancer Cell Metabolism in the Brain Metastatic Microenvironment. *Cancer research*, 77(11), 2844.

Marcu R, et al. (2015) The mitochondrial permeability transition pore regulates endothelial bioenergetics and angiogenesis. *Circulation research*, 116(8), 1336.

Marcu R, et al. (2014) Mitochondrial matrix Ca^{2+} accumulation regulates cytosolic NAD^+ /NADH metabolism, protein acetylation, and sirtuin expression. *Molecular and cellular biology*, 34(15), 2890.