Resource Summary Report

Generated by dkNET on Aug 22, 2026

Cyto-roGFP

RRID:Addgene_49435
Type: Plasmid

Proper Citation

RRID:Addgene_49435

Plasmid Information

URL: http://www.addgene.org/49435

Proper Citation: RRID:Addgene_49435

Insert Name: roGFP2

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: PMID:20019331

Vector Backbone Description: Backbone Marker:ViraQuest Inc.; Backbone Size:5217; Vector Backbone:VQ Ad5CMV K-NpA; Vector Types:Mammalian Expression, Adenoviral; Bacterial Resistance:Ampicillin

Plasmid Name: Cyto-roGFP

Relevant Mutation: C48S, Q80R, S147C, and Q204C in Clontech's GFP

Record Creation Time: 20220422T222254+0000

Record Last Update: 20260815T081600+0000

Ratings and Alerts

No rating or validation information has been found for Cyto-roGFP.

No alerts have been found for Cyto-roGFP.

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 dkNET .

Sun JK, et al. (2025) Alpha-ketoglutarate mitigates insulin resistance and metabolic inflexibility in a mouse model of Ataxia-Telangiectasia. Nature communications, 16(1), 9312.

Ren X, et al. (2024) Loss of Myo19 increases metastasis by enhancing microenvironmental ROS gradient and chemotaxis. EMBO reports, 25(3), 971.

Umansky C, et al. (2022) Endogenous formaldehyde scavenges cellular glutathione resulting in redox disruption and cytotoxicity. Nature communications, 13(1), 745.

Zhao R, et al. (2022) Withaferin A Enhances Mitochondrial Biogenesis and BNIP3-Mediated Mitophagy to Promote Rapid Adaptation to Extreme Hypoxia. Cells, 12(1).

Gui T, et al. (2021) Oxidative stress increases 1-deoxysphingolipid levels in chronic kidney disease. Free radical biology & medicine, 164, 139.

Goffart S, et al. (2021) The Type and Source of Reactive Oxygen Species Influences the Outcome of Oxidative Stress in Cultured Cells. Cells, 10(5).

Zhao R, et al. (2021) Fasting promotes acute hypoxic adaptation by suppressing mTOR-mediated pathways. Cell death & disease, 12(11), 1045.

Tzou FY, et al. (2021) Dihydroceramide desaturase regulates the compartmentalization of Rac1 for neuronal oxidative stress. Cell reports, 35(2), 108972.

Portugal CC, et al. (2021) Activation of adenosine A3 receptors regulates vitamin C transport and redox balance in neurons. Free radical biology & medicine, 163, 43.

Zhao RZ, et al. (2020) Elevated ROS depress mitochondrial oxygen utilization efficiency in cardiomyocytes during acute hypoxia. Pflugers Archiv : European journal of physiology, 472(11), 1619.

Gai Z, et al. (2020) Obeticholic Acid Ameliorates Valproic Acid-Induced Hepatic Steatosis and Oxidative Stress. Molecular pharmacology, 97(5), 314.

Roy SJ, et al. (2020) Inhibition of CaMKII in mitochondria preserves endothelial barrier function after irradiation. Free radical biology & medicine, 146, 287.

Chow HM, et al. (2019) ATM is activated by ATP depletion and modulates mitochondrial function through NRF1. The Journal of cell biology, 218(3), 909.

Zhu Z, et al. (2019) Inhibition of nuclear thioredoxin aggregation attenuates PM2.5-induced NF-??B activation and pro-inflammatory responses. Free radical biology & medicine, 130, 206.

Grimm A, et al. (2018) Local Oxidative Damage in the Soma and Dendrites Quarantines Neuronal Mitochondria at the Site of Insult. iScience, 6, 114.

Huang X, et al. (2018) CHCHD2 accumulates in distressed mitochondria and facilitates oligomerization of CHCHD10. Human molecular genetics, 27(22), 3881.

Sun L, et al. (2018) Lack of PINK1 alters glia innate immune responses and enhances inflammation-induced, nitric oxide-mediated neuron death. Scientific reports, 8(1), 383.

Abiria SA, et al. (2017) TRPM7 senses oxidative stress to release Zn2+ from unique intracellular vesicles. Proceedings of the National Academy of Sciences of the United States of America, 114(30), E6079.

Cao LL, et al. (2016) Control of mitochondrial function and cell growth by the atypical cadherin Fat1. Nature, 539(7630), 575.