

Resource Summary Report

Generated by [RRID](#) on Aug 20, 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 [RRID](#) .

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).

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).

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

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- κ 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.