

Resource Summary Report

Generated by [NIF](#) on Aug 26, 2026

pC1-HyPer-C199S

RRID:Addgene_42213

Type: Plasmid

Proper Citation

RRID:Addgene_42213

Plasmid Information

URL: <http://www.addgene.org/42213>

Proper Citation: RRID:Addgene_42213

Insert Name: HYPER C199S

Organism: Synthetic

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:16554833](#)

Vector Backbone Description: Backbone Size:3982; Vector Backbone:pC1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Plasmid Name: pC1-HyPer-C199S

Record Creation Time: 20220422T222218+0000

Record Last Update: 20260826T042224+0000

Ratings and Alerts

No rating or validation information has been found for pC1-HyPer-C199S.

No alerts have been found for pC1-HyPer-C199S.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 8 mentions in open access literature.

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

Shin YS, et al. (2025) An RbohC and RbohE-mediated ROS oscillatory circuit regulates root cap turnover in Arabidopsis. *iScience*, 28(12), 114056.

Lara-Rojas F, et al. (2023) Using Hyper as a molecular probe to visualize hydrogen peroxide in living plant cells: An updated method. *Methods in enzymology*, 683, 265.

Gibhardt CS, et al. (2019) Measuring Calcium and ROS by Genetically Encoded Protein Sensors and Fluorescent Dyes. *Methods in molecular biology* (Clifton, N.J.), 1925, 183.

Zhang X, et al. (2019) Redox signals at the ER-mitochondria interface control melanoma progression. *The EMBO journal*, 38(15), e100871.

Takahashi N, et al. (2018) Cancer Cells Co-opt the Neuronal Redox-Sensing Channel TRPA1 to Promote Oxidative-Stress Tolerance. *Cancer cell*, 33(6), 985.

Milošević M, et al. (2017) Immunoglobulins G from Sera of Amyotrophic Lateral Sclerosis Patients Induce Oxidative Stress and Upregulation of Antioxidative System in BV-2 Microglial Cell Line. *Frontiers in immunology*, 8, 1619.

Bogdanova YA, et al. (2017) Local Generation and Imaging of Hydrogen Peroxide in Living Cells. *Current protocols in chemical biology*, 9(2), 117.

Weller J, et al. (2014) Response properties of the genetically encoded optical H₂O₂ sensor HyPer. *Free radical biology & medicine*, 76, 227.