

Resource Summary Report

Generated by [NIF](#) on Sep 3, 2026

pEIGW Grx1-roGFP2

RRID:Addgene_64990

Type: Plasmid

Proper Citation

RRID:Addgene_64990

Plasmid Information

URL: <http://www.addgene.org/64990>

Proper Citation: RRID:Addgene_64990

Insert Name: Glutaredoxin-1

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:18469822](#)

Vector Backbone Description: Vector Backbone:pEIGW; Vector Types:Mammalian Expression, Lentiviral; Bacterial Resistance:Ampicillin

Comments: Sequence discrepancies found during QC should not affect function

Plasmid Name: pEIGW Grx1-roGFP2

Record Creation Time: 20220422T222410+0000

Record Last Update: 20260902T045923+0000

Ratings and Alerts

No rating or validation information has been found for pEIGW Grx1-roGFP2.

No alerts have been found for pEIGW Grx1-roGFP2.

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](#) .

Brul?? M, et al. (2025) Spatial self-organization of cancer stem cell niches revealed by live single-cell imaging. Stem cell research & therapy, 16(1), 580.

Goldman C, et al. (2025) Genetically encoded and modular subcellular organelle probes reveal dysfunction in lysosomes and mitochondria driven by PRKN knockout. iScience, 28(7), 112816.

Crist SB, et al. (2022) Unchecked oxidative stress in skeletal muscle prevents outgrowth of disseminated tumour cells. Nature cell biology, 24(4), 538.

Zhang Y, et al. (2022) Subcellular redox responses reveal different Cu-dependent antioxidant defenses between mitochondria and cytosol. Metallomics : integrated biometal science, 14(11).

Hatori Y, et al. (2020) Visualization of the Redox Status of Cytosolic Glutathione Using the Organelle- and Cytoskeleton-Targeted Redox Sensors. Antioxidants (Basel, Switzerland), 9(2).

Kang JH, et al. (2020) Monitoring and modeling of lymphocytic leukemia cell bioenergetics reveals decreased ATP synthesis during cell division. Nature communications, 11(1), 4983.

Li J, et al. (2019) GSTZ1 deficiency promotes hepatocellular carcinoma proliferation via activation of the KEAP1/NRF2 pathway. Journal of experimental & clinical cancer research : CR, 38(1), 438.

Hatori Y, et al. (2018) Local redox environment beneath biological membranes probed by palmitoylated-roGFP. Redox biology, 14, 679.