

Resource Summary Report

Generated by [kravitz2](#) on Aug 9, 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: 20260808T081959+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 [kravitz2](#) .

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.