

Resource Summary Report

Generated by [dkNET](#) on Sep 20, 2026

GW1-pHRed

RRID:Addgene_31473

Type: Plasmid

Proper Citation

RRID:Addgene_31473

Plasmid Information

URL: <http://www.addgene.org/31473>

Proper Citation: RRID:Addgene_31473

Insert Name: pHRed

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:21631110](#)

Vector Backbone Description: Backbone Marker:British Biotechnology; Backbone Size:5300; Vector Backbone:GW1; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: GW1-pHRed

Record Creation Time: 20220422T222136+0000

Record Last Update: 20260919T091700+0000

Ratings and Alerts

No rating or validation information has been found for GW1-pHRed.

No alerts have been found for GW1-pHRed.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 13 mentions in open access literature.

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

Zhang J, et al. (2024) Cellular Energy Cycle Mediates an Advection-Like Forward Cell Flow to Support Collective Invasion. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 11(32), e2400719.

Wang W, et al. (2024) Collagen density regulates tip-stalk cell rearrangement during angiogenesis via cellular bioenergetics. *APL bioengineering*, 8(2), 026120.

Socodato R, et al. (2023) RhoA balances microglial reactivity and survival during neuroinflammation. *Cell death & disease*, 14(10), 690.

Dhoundiyal A, et al. (2022) Glycerol-3-Phosphate Shuttle Is a Backup System Securing Metabolic Flexibility in Neurons. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 42(39), 7339.

Wu Y, et al. (2021) Matrix-driven changes in metabolism support cytoskeletal activity to promote cell migration. *Biophysical journal*, 120(9), 1705.

Chen K, et al. (2021) Excitation spectral microscopy for highly multiplexed fluorescence imaging and quantitative biosensing. *Light, science & applications*, 10(1), 97.

Xue Y, et al. (2021) AAV-Txnip prolongs cone survival and vision in mouse models of retinitis pigmentosa. *eLife*, 10.

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.

Bressan C, et al. (2020) The dynamic interplay between ATP/ADP levels and autophagy sustain neuronal migration in vivo. *eLife*, 9.

Hotka M, et al. (2020) L-type Ca²⁺ channel-mediated Ca²⁺ influx adjusts neuronal mitochondrial function to physiological and pathophysiological conditions. *Science signaling*, 13(618).

Ghosh Dastidar S, et al. (2020) Distinct regulation of bioenergetics and translation by group I mGluR and NMDAR. *EMBO reports*, 21(6), e48037.

Zanotelli MR, et al. (2019) Energetic costs regulated by cell mechanics and confinement are predictive of migration path during decision-making. *Nature communications*, 10(1), 4185.

Zanotelli MR, et al. (2018) Regulation of ATP utilization during metastatic cell migration by collagen architecture. *Molecular biology of the cell*, 29(1), 1.