

Resource Summary Report

Generated by [RRID](#) on Aug 20, 2026

FUGW-PercevalHR

RRID:Addgene_49083

Type: Plasmid

Proper Citation

RRID:Addgene_49083

Plasmid Information

URL: <http://www.addgene.org/49083>

Proper Citation: RRID:Addgene_49083

Insert Name: PercevalHR

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:24096541](#)

Vector Backbone Description: Backbone Size:9222; Vector Backbone:FUGW; Vector Types:Mammalian Expression, Lentiviral; Bacterial Resistance:Ampicillin

Plasmid Name: FUGW-PercevalHR

Record Creation Time: 20220422T222253+0000

Record Last Update: 20260815T081557+0000

Ratings and Alerts

No rating or validation information has been found for FUGW-PercevalHR.

No alerts have been found for FUGW-PercevalHR.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 27 mentions in open access literature.

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

Ekvik AE, et al. (2026) Genetically encoded manipulation of ATP/ADP ratio in human cells uncovers proteomic and physiological signatures of energy stress. *Cell chemical biology*, 33(5), 683.

Ekvik AE, et al. (2025) Genetically encoded tool for manipulation of ATP/ADP ratio in human cells. *bioRxiv : the preprint server for biology*.

Sims SL, et al. (2024) Variable bioenergetic sensitivity of neurons and astrocytes to insulin and extracellular glucose. *npj metabolic health and disease*, 2(1), 33.

Simula L, et al. (2024) Mitochondrial metabolism sustains CD8+ T cell migration for an efficient infiltration into solid tumors. *Nature communications*, 15(1), 2203.

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

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.

Holland SM, et al. (2023) Actin cytoskeletal dynamics do not impose an energy drain on growth cone bioenergetics. *Journal of cell science*, 136(16).

Crosas-Molist E, et al. (2023) AMPK is a mechano-metabolic sensor linking cell adhesion and mitochondrial dynamics to Myosin-dependent cell migration. *Nature communications*, 14(1), 2740.

Armour SL, et al. (2023) Glucose Controls Glucagon Secretion by Regulating Fatty Acid Oxidation in Pancreatic β -Cells. *Diabetes*, 72(10), 1446.

Pérez-Liébaña I, et al. (2022) A Ca^{2+} -Dependent Mechanism Boosting Glycolysis and OXPHOS by Activating Aralar-Malate-Aspartate Shuttle, upon Neuronal Stimulation. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 42(19), 3879.

Verma G, et al. (2022) Ribosomal biogenesis regulator DIMT1 controls β -cell protein synthesis, mitochondrial function, and insulin secretion. *The Journal of biological chemistry*, 298(3), 101692.

Reisman BJ, et al. (2022) Apoptolidin family glycomacrolides target leukemia through inhibition of ATP synthase. *Nature chemical biology*, 18(4), 360.

Vishnu N, et al. (2021) Mitochondrial clearance of calcium facilitated by MICU2 controls insulin secretion. *Molecular metabolism*, 51, 101239.

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

Krantz S, et al. (2021) Mitophagy mediates metabolic reprogramming of induced pluripotent stem cells undergoing endothelial differentiation. *The Journal of biological chemistry*, 297(6), 101410.

Cataldo LR, et al. (2021) The MafA-target gene PPP1R1A regulates GLP1R-mediated amplification of glucose-stimulated insulin secretion in β -cells. *Metabolism: clinical and experimental*, 118, 154734.

Ko KW, et al. (2021) Live imaging reveals the cellular events downstream of SARM1 activation. *eLife*, 10.

Ziogas A, et al. (2021) Glycolysis is integral to histamine-induced endothelial hyperpermeability. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 35(3), e21425.

Ketschek A, et al. (2021) The Axonal Glycolytic Pathway Contributes to Sensory Axon Extension and Growth Cone Dynamics. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 41(31), 6637.

Yeh YT, et al. (2020) Chinese olive (*Canarium album* L.) fruit regulates glucose utilization by activating AMP-activated protein kinase. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 34(6), 7866.