Resource Summary Report

Generated by NIF on Sep 1, 2026

GW1CMV-Perceval

RRID:Addgene_21737
Type: Plasmid

Proper Citation

RRID:Addgene_21737

Plasmid Information

URL: http://www.addgene.org/21737

Proper Citation: RRID:Addgene_21737

Insert Name: Perceval (fluorescent ATP:ADP sensor)

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: PMID:19122669

Vector Backbone Description: Backbone Marker:British Biotech; Backbone Size:5076; Vector Backbone:pGW1-CMV; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: GW1CMV-Perceval

Relevant Mutation: improved Kozak sequence

Record Creation Time: 20220422T222056+0000

Record Last Update: 20260829T080208+0000

Ratings and Alerts

No rating or validation information has been found for GW1CMV-Perceval.

No alerts have been found for GW1CMV-Perceval.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 7 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF .

Acreman S, et al. (2024) The endoplasmic reticulum plays a key role in ??-cell intracellular Ca2+ dynamics and glucose-regulated glucagon secretion in mouse islets. iScience, 27(5), 109665.

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

Yang M, et al. (2021) Inhibition of mitochondrial function by metformin increases glucose uptake, glycolysis and GDF-15 release from intestinal cells. Scientific reports, 11(1), 2529.

Coomer CA, et al. (2020) Single-cell glycolytic activity regulates membrane tension and HIV-1 fusion. PLoS pathogens, 16(2), e1008359.

Knudsen JG, et al. (2019) Dysregulation of Glucagon Secretion by Hyperglycemia-Induced Sodium-Dependent Reduction of ATP Production. Cell metabolism, 29(2), 430.

Grimm A, et al. (2018) Local Oxidative Damage in the Soma and Dendrites Quarantines Neuronal Mitochondria at the Site of Insult. iScience, 6, 114.

Ofori JK, et al. (2017) Elevated miR-130a/miR130b/miR-152 expression reduces intracellular ATP levels in the pancreatic beta cell. Scientific reports, 7, 44986.