

Resource Summary Report

Generated by [RRID](#) on Aug 22, 2026

pDisplay-GRAB_ATP1.0mut-IRES-mCherry-CAAX

RRID:Addgene_167583

Type: Plasmid

Proper Citation

RRID:Addgene_167583

Plasmid Information

URL: <http://www.addgene.org/167583>

Proper Citation: RRID:Addgene_167583

Insert Name: ATP-insensitive sensor GRAB_ATP1.0mut (control sensor)

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:34942116](#)

Vector Backbone Description: Backbone Marker:Addgene; Backbone Size:6546; Vector Backbone:pDisplay; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: Please visit <https://www.biorxiv.org/content/10.1101/2021.02.24.432680v1> for bioRxiv preprint.

Plasmid Name: pDisplay-GRAB_ATP1.0mut-IRES-mCherry-CAAX

Record Creation Time: 20220422T221941+0000

Record Last Update: 20260815T080945+0000

Ratings and Alerts

No rating or validation information has been found for pDisplay-GRAB_ATP1.0mut-IRES-mCherry-CAAX.

No alerts have been found for pDisplay-GRAB_ATP1.0mut-IRES-mCherry-CAAX.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Butler J, et al. (2023) X-linked Charcot Marie Tooth mutations alter CO2 sensitivity of connexin32 hemichannels. *Frontiers in cellular neuroscience*, 17, 1330983.

Wu Z, et al. (2022) A sensitive GRAB sensor for detecting extracellular ATP in vitro and in vivo. *Neuron*, 110(5), 770.