

Resource Summary Report

Generated by [RRID](#) on Aug 21, 2026

pAAV-GfaABC1D-GRAB_ATP1.0

RRID:Addgene_167579

Type: Plasmid

Proper Citation

RRID:Addgene_167579

Plasmid Information

URL: <http://www.addgene.org/167579>

Proper Citation: RRID:Addgene_167579

Insert Name: ATP sensor GRAB_ATP1.0

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:34942116](#)

Vector Backbone Description: Backbone Marker:Addgene; Backbone Size:5121; Vector Backbone:pAAV; Vector Types:AAV; Bacterial Resistance:Ampicillin

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

Plasmid Name: pAAV-GfaABC1D-GRAB_ATP1.0

Record Creation Time: 20220422T221941+0000

Record Last Update: 20260815T080945+0000

Ratings and Alerts

No rating or validation information has been found for pAAV-GfaABC1D-GRAB_ATP1.0.

No alerts have been found for pAAV-GfaABC1D-GRAB_ATP1.0.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Bae KG, et al. (2026) ATP release mediated by TRPM3 enhances invasion in glioblastoma. *Animal cells and systems*, 30(1), 235.

Heimbach SN, et al. (2026) Temporal cortex astrocytic Gi-GPCR signaling regulates learned threat responses. *bioRxiv : the preprint server for biology*.

Wendlandt M, et al. (2023) A2A adenosine receptor-driven cAMP signaling in olfactory bulb astrocytes is unaffected in experimental autoimmune encephalomyelitis. *Frontiers in immunology*, 14, 1273837.

Jun S, et al. (2023) Organization of Purkinje cell development by neuronal MEGF11 in cerebellar granule cells. *Cell reports*, 42(9), 113137.

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