

Resource Summary Report

Generated by [RRID](#) on Aug 25, 2026

pAAV-hSyn-GRAB_NE1m

RRID:Addgene_123308

Type: Plasmid

Proper Citation

RRID:Addgene_123308

Plasmid Information

URL: <http://www.addgene.org/123308>

Proper Citation: RRID:Addgene_123308

Insert Name: GPCR activation based NE sensor GRAB_NE1m

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:30922875](https://pubmed.ncbi.nlm.nih.gov/30922875/)

Vector Backbone Description: Backbone Size:4495; Vector Backbone:pAAV vector; Vector Types:AAV; Bacterial Resistance:Ampicillin

Comments: Please visit <https://www.biorxiv.org/content/early/2018/10/23/449546.full.pdf> for BioRxiv preprint.

Plasmid Name: pAAV-hSyn-GRAB_NE1m

Relevant Mutation: contains a glycine-to-threonine mutation at position C1

Record Creation Time: 20220422T221645+0000

Record Last Update: 20260815T080353+0000

Ratings and Alerts

No rating or validation information has been found for pAAV-hSyn-GRAB_NE1m.

No alerts have been found for pAAV-hSyn-GRAB_NE1m.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Li C, et al. (2026) Multi-timescale Computation by Astrocytes. bioRxiv : the preprint server for biology.

Kawanabe-Kobayashi R, et al. (2026) Descending locus coeruleus noradrenergic signaling to spinal astrocyte subset is required for stress-induced mechanical pain hypersensitivity. eLife, 14.

Namkung Y, et al. (2025) Development of a genetically encoded melanocortin sensor for high sensitivity in vivo imaging. Molecular metabolism, 101, 102254.

Ino D, et al. (2022) A fluorescent sensor for real-time measurement of extracellular oxytocin dynamics in the brain. Nature methods, 19(10), 1286.

Chen D, et al. (2022) Deconstruction of a hypothalamic astrocyte-white adipocyte sympathetic axis that regulates lipolysis in mice. Nature communications, 13(1), 7536.

Osorio-Forero A, et al. (2021) Noradrenergic circuit control of non-REM sleep substates. Current biology : CB, 31(22), 5009.