

Resource Summary Report

Generated by [RRID](#) on Aug 27, 2026

pAAV hSyn1 bPAC cMyc S27A 2A tDimer

RRID:Addgene_85398

Type: Plasmid

Proper Citation

RRID:Addgene_85398

Plasmid Information

URL: <http://www.addgene.org/85398>

Proper Citation: RRID:Addgene_85398

Insert Name: humanized photoactivated adenylyl cyclase

Organism: GU461306

Bacterial Resistance: Ampicillin

Vector Backbone Description: Backbone Marker:Stratagene; Backbone Size:4568; Vector Backbone:pAAV; Vector Types:Mammalian Expression, AAV; Bacterial Resistance:Ampicillin

Comments: Insert was described in Stierl et al Biochemistry. 2014 Aug 12;53(31):5121-30. doi: 10.1021/bi500479v. Epub 2014 Jul 28 and cloned behind a neuron-specific promoter.

Plasmid Name: pAAV hSyn1 bPAC cMyc S27A 2A tDimer

Relevant Mutation: S27A

Record Creation Time: 20220422T222549+0000

Record Last Update: 20260815T082123+0000

Ratings and Alerts

No rating or validation information has been found for pAAV hSyn1 bPAC cMyc S27A 2A tDimer.

No alerts have been found for pAAV hSyn1 bPAC cMyc S27A 2A tDimer.

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](#) .

Nagase M, et al. (2024) All-optical presynaptic plasticity induction by photoactivated adenylyl cyclase targeted to axon terminals. Cell reports methods, 4(4), 100740.

Doucette CC, et al. (2023) Optogenetic activation of UCP1-dependent thermogenesis in brown adipocytes. iScience, 26(4), 106560.