

Resource Summary Report

Generated by [RRID](#) on Aug 19, 2026

G protein alpha-s-YFP

RRID:Addgene_55781

Type: Plasmid

Proper Citation

RRID:Addgene_55781

Plasmid Information

URL: <http://www.addgene.org/55781>

Proper Citation: RRID:Addgene_55781

Insert Name: alpha-s-EE YFP

Organism: Rattus norvegicus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:17596375](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:4800; Vector Backbone:pcDNA1/Amp; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: Reference for alpha-s-EE: Wilson, P. T., and Bourne, H. R. (1995) Fatty acylation of ?z. Effects of palmitoylation and myristoylation on ?z signaling. J. Biol. Chem. 270, 9667-9675

Plasmid Name: G protein alpha-s-YFP

Relevant Mutation: Met was substituted for Gln69 in EYFP (Clontech). BamHI sites in the alpha-s cDNA were removed and alpha-s residues 73-84 were replaced with Gly-Ser adding a unique BamHI site.

Record Creation Time: 20220422T222326+0000

Record Last Update: 20260815T081653+0000

Ratings and Alerts

No rating or validation information has been found for G protein alpha-s-YFP.

No alerts have been found for G protein alpha-s-YFP.

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 [RRID](#) .

Manchanda Y, et al. (2024) Engineered mini-G proteins block the internalization of cognate GPCRs and disrupt downstream intracellular signaling. *Science signaling*, 17(843), eabq7038.

Oda S, et al. (2022) Myocardial TRPC6-mediated Zn²⁺ influx induces beneficial positive inotropy through β -adrenoceptors. *Nature communications*, 13(1), 6374.

Maziarz M, et al. (2020) Revealing the Activity of Trimeric G-proteins in Live Cells with a Versatile Biosensor Design. *Cell*, 182(3), 770.

Buenaventura T, et al. (2019) Agonist-induced membrane nanodomain clustering drives GLP-1 receptor responses in pancreatic beta cells. *PLoS biology*, 17(8), e3000097.

Buenaventura T, et al. (2018) A Targeted RNAi Screen Identifies Endocytic Trafficking Factors That Control GLP-1 Receptor Signaling in Pancreatic β -Cells. *Diabetes*, 67(3), 385.

Civciristov S, et al. (2018) Preassembled GPCR signaling complexes mediate distinct cellular responses to ultralow ligand concentrations. *Science signaling*, 11(551).

Gupta V, et al. (2016) GIV/Girdin activates G β i and inhibits G β s via the same motif. *Proceedings of the National Academy of Sciences of the United States of America*, 113(39), E5721.