

Resource Summary Report

Generated by [nidm-terms](#) on Sep 18, 2026

sq5

RRID:Addgene_24499

Type: Plasmid

Proper Citation

RRID:Addgene_24499

Plasmid Information

URL: <http://www.addgene.org/24499>

Proper Citation: RRID:Addgene_24499

Insert Name: Gs alpha

Organism: Rattus norvegicus

Bacterial Resistance: Ampicillin and Tetracycline

Defining Citation: [PMID:8863834](#)

Vector Backbone Description: Backbone Size:4000; Vector Backbone:pcDNA1; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin and Tetracycline

Comments: This is Gs alpha with the C-terminal amino acids changed from Gs alpha to Gq alpha residues (QYELL to EYNLV). This construct allows some Gq-coupled receptors to stimulate Adenylate cyclase. There isn't much experience with this chimera at the moment. It may be useful for people who find the AC stimulation is better readout of receptor activation than PLC stimulation. Contains an internal hemagglutinin epitope tage (DVPDYA) that has no effect on receptor coupling. Please see supplemental document for G-protein chimera user manual.

Plasmid Name: sq5

Relevant Mutation: This is Gs alpha with the C-terminal amino acids changed from Gs alpha to Gq alpha residues (QYELL to EYNLV).

Record Creation Time: 20220422T222109+0000

Record Last Update: 20260912T092504+0000

Ratings and Alerts

No rating or validation information has been found for sq5.

No alerts have been found for sq5.

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 [nidm-terms](#) .

Buczynski SA, et al. (2025) A Chemically Stable Photocaged Noradrenaline. ACS chemical neuroscience, 16(15), 2935.

Zhang B, et al. (2017) G Protein Alpha S Subunit Promotes Cell Proliferation of Renal Cell Carcinoma with Involvement of Protein Kinase A Signaling. DNA and cell biology, 36(3), 237.