

Resource Summary Report

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

qi5

RRID:Addgene_24501

Type: Plasmid

Proper Citation

RRID:Addgene_24501

Plasmid Information

URL: <http://www.addgene.org/24501>

Proper Citation: RRID:Addgene_24501

Insert Name: Gq alpha

Organism: Mus musculus

Bacterial Resistance: Ampicillin and Tetracycline

Defining Citation: [PMID:8387644](#)

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

Comments: This is Gq alpha with the C-terminal amino acids changed from Gq alpha to Gi alpha residues (EYNLV to DCGLF). This construct allows many Gi-coupled receptors to stimulate phospholipase C (PLC). This is the most popular chimera, perhaps because it is easier to talk about coupling to Gi-coupled receptors with "qi5" rather than "qo5" or "qz5." Contains an internal hemagglutinin epitope tag (DVPDYA) that has no effect on receptor coupling. Please see supplemental document for G-protein chimera user manual.

Plasmid Name: qi5

Relevant Mutation: Gq alpha with the C-terminal amino acids changed from Gq alpha to Gi alpha residues (EYNLV to DCGLF)

Record Creation Time: 20220422T222109+0000

Record Last Update: 20260912T092505+0000

Ratings and Alerts

No rating or validation information has been found for qi5.

No alerts have been found for qi5.

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 [nidm-terms](#) .

Schüß C, et al. (2023) Structure-Activity Relationship Study of the High-Affinity Neuropeptide Y4 Receptor Positive Allosteric Modulator VU0506013. Journal of medicinal chemistry, 66(13), 8745.

Fierro F, et al. (2023) Inhibiting a promiscuous GPCR: iterative discovery of bitter taste receptor ligands. Cellular and molecular life sciences : CMLS, 80(4), 114.

Schüß C, et al. (2021) Highly Selective Y4 Receptor Antagonist Binds in an Allosteric Binding Pocket. Journal of medicinal chemistry, 64(5), 2801.

Morita K, et al. (2020) Allosteric Activators of Protein Phosphatase 2A Display Broad Antitumor Activity Mediated by Dephosphorylation of MYBL2. Cell, 181(3), 702.

Peeler JC, et al. (2017) Isopeptide and ester bond ubiquitination both regulate degradation of the human dopamine receptor 4. The Journal of biological chemistry, 292(52), 21623.

Dever SM, et al. (2012) Differential expression and HIV-1 regulation of μ -opioid receptor splice variants across human central nervous system cell types. Journal of neurovirology, 18(3), 181.