

Resource Summary Report

Generated by [RRID](#) on Aug 17, 2026

[qz5](#)

RRID:Addgene_25867

Type: Plasmid

Proper Citation

RRID:Addgene_25867

Plasmid Information

URL: <http://www.addgene.org/25867>

Proper Citation: RRID:Addgene_25867

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 Gz alpha residues (EYNLV to YIGLC). Works the same as qi5 and is the least popular since no one knows what Gz alpha really does in nature. Since qz5 is not sensitive to pertussis toxin, qz5 may be the only G protein activated by a Gi-coupled receptor in cells treated with pertussis toxin. This trick can be experimentally useful in settings where you want experimental control of the exact G protein and the receptor that is activated. It is theoretically possible that this construct will work better than the other constructs for particular receptors, but the Conklin lab has not seen this happen yet. 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: qz5

Relevant Mutation: Replacement of the five carboxyl-terminal amino acids of Gq alpha (EYNLV) with those of Gz alpha(YIGLC)

Record Creation Time: 20220422T222115+0000

Record Last Update: 20260815T081246+0000

Ratings and Alerts

No rating or validation information has been found for qz5.

No alerts have been found for qz5.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.