

Resource Summary Report

Generated by [RRID](#) on Aug 31, 2026

pcDNA5/FRT/TO-GAlphaQ-RLuc8

RRID:Addgene_140982

Type: Plasmid

Proper Citation

RRID:Addgene_140982

Plasmid Information

URL: <http://www.addgene.org/140982>

Proper Citation: RRID:Addgene_140982

Insert Name: GAlphaQ-RLuc8

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:32367019](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5189; Vector Backbone:pcDNA5/FRT/TO; Vector Types:Mammalian Expression, Luciferase; Bacterial Resistance:Ampicillin

Comments: These plasmids were generated as part of the Illuminating the Druggable Genome (IDG) program sponsored by the NIH Common Fund. The goal of this program is to identify, gather, and distribute information and resources for proteins that currently are not well-studied yet belong to commonly drug-targeted protein families: protein kinases, non-olfactory G-protein coupled receptors (GPCRs), and ion channels. The IDG program is designed to develop fundamental research tools for understudied proteins, elucidate their function, and disseminate the IDG-related resources and data to the greater scientific community.

Plasmid Name: pcDNA5/FRT/TO-GAlphaQ-RLuc8

Relevant Mutation: RLuc8 and flanking SGGGS linkers have been inserted at amino acid position 125 of the alpha subunit

Record Creation Time: 20220422T221813+0000

Record Last Update: 20260829T075638+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA5/FRT/TO-GAlphaQ-RLuc8.

No alerts have been found for pcDNA5/FRT/TO-GAlphaQ-RLuc8.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 4 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Shen S, et al. (2024) Structural basis for hormone recognition and distinctive Gq protein coupling by the kisspeptin receptor. Cell reports, 43(7), 114389.

Braga Emidio N, et al. (2024) Nanobody-Mediated Dualsteric Engagement of the Angiotensin Receptor Broadens Biased Ligand Pharmacology. Molecular pharmacology, 105(3), 260.

Zhong X, et al. (2024) A proximity proteomics pipeline with improved reproducibility and throughput. Molecular systems biology, 20(8), 952.

Lewis V, et al. (2023) A non-hallucinogenic LSD analog with therapeutic potential for mood disorders. Cell reports, 42(3), 112203.