

Resource Summary Report

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

pcDNA5/FRT-HA-rM3D(Gs)

RRID:Addgene_45549

Type: Plasmid

Proper Citation

RRID:Addgene_45549

Plasmid Information

URL: <http://www.addgene.org/45549>

Proper Citation: RRID:Addgene_45549

Insert Name: rM3D (Gs)

Organism: Rattus norvegicus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:17360345](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5026; Vector Backbone:pcDNA5/FRT; Vector Types:Mammalian Expression, Bacterial Expression; 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-HA-rM3D(Gs)

Record Creation Time: 20220422T222235+0000

Record Last Update: 20260815T081525+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA5/FRT-HA-rM3D(Gs).

No alerts have been found for pcDNA5/FRT-HA-rM3D(Gs).

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Jain A, et al. (2025) G??q-Stimulated Gene Expression Is Insensitive to Bromo Extra Terminal Domain Inhibitors in HEK 293 Cells. International journal of molecular sciences, 26(18).

Nmarneh A, et al. (2024) TRPM5 activation depends on a synergistic effect of calcium and PKC phosphorylation. Communications biology, 7(1), 369.

Oliver RJ, et al. (2019) Transient Chemogenetic Inhibition of D1-MSNs in the Dorsal Striatum Enhances Methamphetamine Self-Administration. Brain sciences, 9(11).