

Resource Summary Report

Generated by [dkNET](#) on Aug 20, 2026

DAGR

RRID:Addgene_14865

Type: Plasmid

Proper Citation

RRID:Addgene_14865

Plasmid Information

URL: <http://www.addgene.org/14865>

Proper Citation: RRID:Addgene_14865

Insert Name: DAG reporter

Organism: Rattus norvegicus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:12782683](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5400; Vector Backbone:pcDNA3; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: CFP and YFP fused to the C1A and C1B domains of PKC β II. DAGR was created by PCR of the C1A and C1B domains of rat PKC β II (aa 37–152) from KpnI to XhoI and substitution for the PH domain in CYPHR.

Plasmid Name: DAGR

Record Creation Time: 20220422T221826+0000

Record Last Update: 20260815T080709+0000

Ratings and Alerts

No rating or validation information has been found for DAGR.

No alerts have been found for DAGR.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 8 mentions in open access literature.

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

Inderwiedenstraße L, et al. (2024) Angiotensin receptors and β 1B-adrenergic receptors regulate native IK(ACh) and phosphorylation-deficient GIRK4 (S418A) channels through different PKC isoforms. Pflügers Archiv : European journal of physiology, 476(7), 1041.

Renkhold L, et al. (2022) PKC-isoform specific regulation of receptor desensitization and KCNQ1/KCNE1 K⁺ channel activity by mutant β 1B-adrenergic receptors. Cellular signalling, 91, 110228.

da Silva Rosa SC, et al. (2021) BNIP3L/Nix-induced mitochondrial fission, mitophagy, and impaired myocyte glucose uptake are abrogated by PRKA/PKA phosphorylation. Autophagy, 17(9), 2257.

Kienitz MC, et al. (2019) Biased signaling of Ca²⁺-sensing receptors in cardiac myocytes regulates GIRK channel activity. Journal of molecular and cellular cardiology, 130, 107.

Niemeyer A, et al. (2019) Receptor-specific regulation of atrial GIRK channel activity by different Ca²⁺-dependent PKC isoforms. Cellular signalling, 64, 109418.

Kienitz MC, et al. (2016) Receptor Species-dependent Desensitization Controls KCNQ1/KCNE1 K⁺ Channels as Downstream Effectors of Gq Protein-coupled Receptors. The Journal of biological chemistry, 291(51), 26410.

Bodmann EL, et al. (2014) Dynamics of G β q-protein-p63RhoGEF interaction and its regulation by RGS2. The Biochemical journal, 458(1), 131.

Tauseef M, et al. (2012) TLR4 activation of TRPC6-dependent calcium signaling mediates endotoxin-induced lung vascular permeability and inflammation. The Journal of experimental medicine, 209(11), 1953.