

Resource Summary Report

Generated by [RRID](#) on Aug 24, 2026

pcDNA3 Flag beta-1-adrenergic-receptor

RRID:Addgene_14698

Type: Plasmid

Proper Citation

RRID:Addgene_14698

Plasmid Information

URL: <http://www.addgene.org/14698>

Proper Citation: RRID:Addgene_14698

Insert Name: B1AR

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:10535961](#)

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

Comments: Addgene Sanger sequencing found G389R in the B1AR translation

Plasmid Name: pcDNA3 Flag beta-1-adrenergic-receptor

Record Creation Time: 20220422T221824+0000

Record Last Update: 20260815T080706+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3 Flag beta-1-adrenergic-receptor.

No alerts have been found for pcDNA3 Flag beta-1-adrenergic-receptor.

Data and Source Information

Usage and Citation Metrics

We found 11 mentions in open access literature.

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

Janicot R, et al. (2024) Direct interrogation of context-dependent GPCR activity with a universal biosensor platform. bioRxiv : the preprint server for biology.

Tutzauer J, et al. (2024) G protein-coupled estrogen receptor (GPER)/GPR30 forms a complex with the β 1-adrenergic receptor, a membrane-associated guanylate kinase (MAGUK) scaffold protein, and protein kinase A anchoring protein (AKAP) 5 in MCF7 breast cancer cells. Archives of biochemistry and biophysics, 752, 109882.

Cho YK, et al. (2022) Adipocyte lysoplasmalogenase TMEM86A regulates plasmalogen homeostasis and protein kinase A-dependent energy metabolism. Nature communications, 13(1), 4084.

Benton KC, et al. (2022) Norepinephrine activates β 1 -adrenergic receptors at the inner nuclear membrane in astrocytes. Glia, 70(9), 1777.

Ngo AM, et al. (2020) Dual Fluorescence Cytometry Assay to Assess Cellular Protein Levels. Bio-protocol, 10(8), e3597.

Nash CA, et al. (2019) Golgi localized β 1-adrenergic receptors stimulate Golgi PI4P hydrolysis by PLC β to regulate cardiac hypertrophy. eLife, 8.

Ngo AM, et al. (2019) The ER membrane protein complex is required to ensure correct topology and stable expression of flavivirus polyproteins. eLife, 8.

Felce JH, et al. (2017) Receptor Quaternary Organization Explains G Protein-Coupled Receptor Family Structure. Cell reports, 20(11), 2654.

Jung G, et al. (2016) Time-dependent evolution of functional vs. remodeling signaling in induced pluripotent stem cell-derived cardiomyocytes and induced maturation with biomechanical stimulation. FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 30(4), 1464.

Deyts C, et al. (2012) Novel G β S-protein signaling associated with membrane-tethered amyloid precursor protein intracellular domain. The Journal of neuroscience : the official journal of the Society for Neuroscience, 32(5), 1714.

Fuhs SR, et al. (2011) Caveolin-3 undergoes SUMOylation by the SUMO E3 ligase PIASy: sumoylation affects G-protein-coupled receptor desensitization. The Journal of biological chemistry, 286(17), 14830.