

# 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  $\beta$ 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  $\beta$ 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  $\beta$ 1-adrenergic receptors stimulate Golgi PI4P hydrolysis by PLC $\beta$  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 $\beta$ 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.