

# Resource Summary Report

Generated by [RRID](#) on Aug 23, 2026

## pcDNA3-AKAR4

RRID:Addgene\_61619

Type: Plasmid

### Proper Citation

RRID:Addgene\_61619

### Plasmid Information

**URL:** <http://www.addgene.org/61619>

**Proper Citation:** RRID:Addgene\_61619

**Insert Name:** AKAR4

**Organism:** Saccharomyces cerevisiae

**Bacterial Resistance:** Ampicillin

**Defining Citation:** [PMID:20838685](#)

**Vector Backbone Description:** Backbone Marker:Invitrogen; Backbone Size:5446;  
Vector Backbone:pcDNA3; Vector Types:Mammalian Expression; Bacterial  
Resistance:Ampicillin

**Plasmid Name:** pcDNA3-AKAR4

**Record Creation Time:** 20220422T222353+0000

**Record Last Update:** 20260815T081744+0000

### Ratings and Alerts

No rating or validation information has been found for pcDNA3-AKAR4.

No alerts have been found for pcDNA3-AKAR4.

### Data and Source Information

**Source:** [Addgene](#)

### Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Weiser-Bitoun I, et al. (2025) Spatiotemporal profiling of protein kinase A activity in spontaneously beating hiPSC-derived cardiac organoids. *iScience*, 28(3), 112005.

Conca F, et al. (2025) Phosphatases Control the Duration and Range of cAMP/PKA Microdomains. *Function* (Oxford, England), 6(2).

Greenwald E, et al. (2023) GPCR Signaling Measurement and Drug Profiling with an Automated Live-Cell Microscopy System. *ACS sensors*, 8(1), 19.

Scorza SI, et al. (2023) TRPML1-Induced Lysosomal Ca<sup>2+</sup> Signals Activate AQP2 Translocation and Water Flux in Renal Collecting Duct Cells. *International journal of molecular sciences*, 24(2).

Underhill SM, et al. (2021) Amphetamines signal through intracellular TAAR1 receptors coupled to G $\alpha$ 13 and G $\alpha$ S in discrete subcellular domains. *Molecular psychiatry*, 26(4), 1208.

Freund JR, et al. (2018) Activation of airway epithelial bitter taste receptors by *Pseudomonas aeruginosa* quinolones modulates calcium, cyclic-AMP, and nitric oxide signaling. *The Journal of biological chemistry*, 293(25), 9824.