

Product datasheet for RC215986

AKAP6 (NM_004274) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AKAP6 (NM_004274) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AKAP6
Synonyms:	ADAP6; ADAP100; AKAP100; mAKAP; PRKA6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215986 representing NM_004274. Blue=ORF Red=Cloning site Green=Tag(s)

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Protein Sequence: >Peptide sequence encoded by RC215986
 Blue=ORF Red=Cloning site Green=Tag(s)

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Chromatograms: https://cdn.origene.com/chromatograms/mg4612_d05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_004274

ORF Size: 6957 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq Size: 10342 bp

RefSeq ORF: 6960 bp

Locus ID: 9472

UniProt ID: [Q13023](#)

Cytogenetics: 14q12

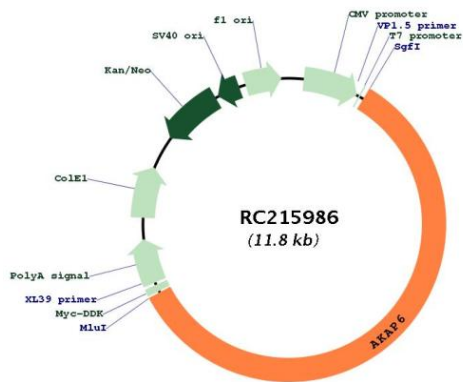
Domains: spectrin

Protein Families: Druggable Genome

MW: 256.7 kDa

Gene Summary: The A-kinase anchor proteins (AKAPs) are a group of structurally diverse proteins, which have the common function of binding to the regulatory subunit of protein kinase A (PKA) and confining the holoenzyme to discrete locations within the cell. This gene encodes a member of the AKAP family. The encoded protein is highly expressed in various brain regions and cardiac and skeletal muscle. It is specifically localized to the sarcoplasmic reticulum and nuclear membrane, and is involved in anchoring PKA to the nuclear membrane or sarcoplasmic reticulum. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC215986