

Product datasheet for RC220532

AKAP11 (NM_016248) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AKAP11 (NM_016248) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AKAP11
Synonyms:	AKAP-11; AKAP220; PPP1R44; PRKA11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220532 representing NM_016248 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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Protein Sequence:

>RC220532 representing NM_016248
Red=Cloning site Green=Tags(s)

MATFRNNHMKTKASVRKSFSEDFVQSVKSLLSQKELCSVTAEDCLQQDEHANL TEVTF LGFNEETDAAH
IQDLAAVSLLELPDILNSLHFCSLNENEI ICMKNINKPLDISSDPLNQSHPSGMLCVMRVSPSPRLRIDF
IFSLLSKYATGIRYTLDTFLHQKHQLETTDEDDDDTNQSVSSIEDDFVTA FEHLEEEETS KPYNDGMNIT
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FYRSSNASDKDSLQKTFSSSPAYSSSECSPPVIFLDEEGYQKSLKAKLELPKIPVMKDDIEDSDS
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GASFAESLATETMAAVTNVGHAVSSSKEIEDFQSTESVSSQQMNL SIGDDSTGSWSNLSFEDEHQDESS
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KSLFDWLENA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8033_h02.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_016248

ORF Size: 5703 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

RefSeq: [NM_016248.4](#)

RefSeq Size: 9919 bp

RefSeq ORF: 5706 bp

Locus ID: 11215

UniProt ID: [Q9UKA4](#)

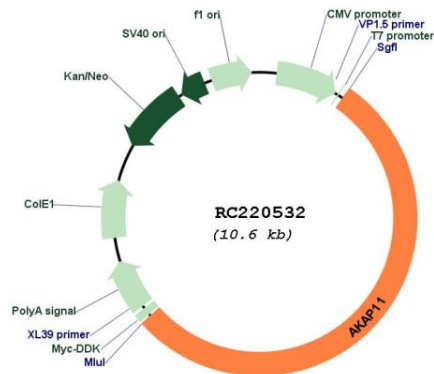
Cytogenetics: 13q14.11

Protein Families: Druggable Genome

MW: 210.3 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 expressed at high levels throughout spermatogenesis and in mature sperm. It binds the RI and RII subunits of PKA in testis. It may serve a function in cell cycle control of both somatic cells and germ cells in addition to its putative role in spermatogenesis and sperm function. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC220532