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Product datasheet for RC221765

AKAP4 (NM_003886) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AKAP4 (NM_003886) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AKAP4
Synonyms:	AKAP-4; AKAP 82; AKAP82; CT99; FSC1; hAKAP82; HI; p82; PRKA4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC221765 representing NM_003886
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGGCGTACTCTGATACTACAATGATGTCTGATGATATTGACTGGTTACGCAGCCACAGGGGTGTGT
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>RC221765 representing NM_003886
Red=Cloning site Green=Tags(s)

MMAYSDTTMMSDDIDWLRSHRGVCKVDLYNPEGQQDQDRKVICFVDVSTLNVEDKDYKDAASSSSEGNLN
LGSLEEKEIIVIKDTEKKDQSKTEGSVCLFKQAPSDPVSVLNWLLSDLQKYALGFQHALSPSTSTCKHKV
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ECSIDDLSFYVNRLSSLVIQMAHKEIKEKLEGKSKCLHHSICPSPGNKERISPRTPASKIASEMAYEAVE
LTAAEMRGTGEESREGGQKSFLYSELSNKSKSGDKQMSQRESKEFADSISKGLMVYANQVASDMMVSLMK
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TSAEKVGEHILKEGLTIWNQKQGNSCKVATKACSNKDEKGEKINASTDSLAKDLIVSALKLIQYHLTQQT
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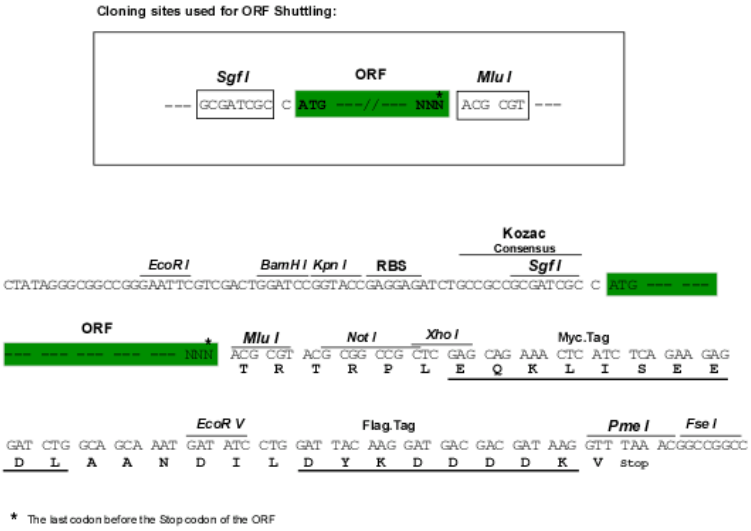
VARKQLLDWLLANL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8100_d01.zip

Restriction Sites: SgfI-MluI

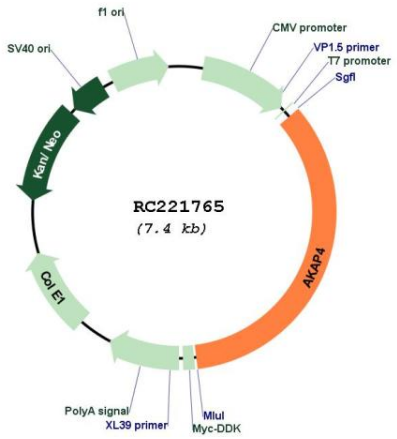
Cloning Scheme:



ACCN:	NM_003886
ORF Size:	2562 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_003886.3
RefSeq Size:	2881 bp
RefSeq ORF:	2565 bp
Locus ID:	8852
UniProt ID:	Q5JQC9
Cytogenetics:	Xp11.22
Protein Families:	Druggable Genome
MW:	94.48 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 localized to the sperm flagellum and may be involved in the regulation of sperm motility. Alternative splicing of this gene results in two transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC221765