

## Product datasheet for **RC217793**

### **AKAP4 (NM\_139289) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	AKAP4 (NM_139289) 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)



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**ORF Nucleotide Sequence:**

>RC217793 representing NM\_139289  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTGTGATGATATTGACTGGTTACGCAGCCACAGGGGTGTGTGCAAGGTAGATCTCTACAACCCAGAAG  
 GACAGCAAGATCAGGACCGAAAAGTGATATGCTTTGTCGATGTGTCCACCCTGAATGTAGAAGATAAAGA  
 TTACAAGGATGCTGCTAGTTCAGCTCAGAAGGCAACTTAAACCTGGGAAGTCTGGAAGAAAAAGAGATT  
 ATCGTGATCAAGGACACTGAGAAGAAAGACCAGTCTAAGACAGAGGGATCTGTATGCCTTTTCAAACAAG  
 CTCCTCTGATCTGTAAGTGTCTCAACTGGCTTCTCAGTGATCTCCAGAAGTATGCCTTGGGTTTCCA  
 ACATGCACTGAGCCCTCAACCTCTACCTGTAACATAAAGTAGGAGACACAGAGGGCGAATATCACAGA  
 GCATCCTCTGAGAAGTGTACAGTGTCTATGCCGATCAAGTGAACATAGATTATTTGATGAACAGACCTC  
 AAAACCTACGTCTAGAAATGACAGCAGTAAAAACACCAACAATAATCAAAGTCTTCAGCTCCTCCAGC  
 CAAACCTCTAGCACTCAGAGAGCAGTCAATTTCCCTGATGGAGAATGTTCTATAGATGACCTTTCTTTC  
 TAGCTCAACCGACTATCTTCTCTGGTAATCCAGATGGCCCATAAAGAAATCAAGGAGAAGTTGGAAGGTA  
 AAAGCAAATGCCTTCATCATTCAATCTGTCCATCCCCTGGGAACAAGAGAGAATCAGTCCCAGAACTCC  
 TGCGAGCAAGATTGCTTCTGAAATGGCCTATGAAGCTGTGGAAGTACAGCTGCAGAAATGCGTGGCACT  
 GGAGAGGAGTCCAGGGAAGGTGGCCAGAAAAGCTTTCTATATAGCGAATTATCCAACAAGAGCAAAAAGTG  
 GAGACAACAGATGTCCCAGAGAGAGAGCAAGAATTTGCAGATTCCATCAGCAAGGGGCTCATGGTTTA  
 TGCAAAATCAGGTGGCATCTGACATGATGGTCTCTCTCATGAAGACCTTAAAAGTGCACAGCTCTGGGAAG  
 CCAATTCAGCATCTGTGGTCTGAAGAGGGTGTGCTAAGGCACACCAAGGAGATTGTGTCCGATTGGA  
 TTGATTTGTCATGAAGAACCTGCATAAATTACTGGGTCCTGATGACTGACTCAGACTTTGTCTCAGC  
 TGTCAAGAGAAATCTGTTCAACCAAGTGGAAACAAAATGCTACAGACATCATGGAGGCCATGCTGAAGCGC  
 TTGGTCACTGCCCTTATAGGTGAGGAGAAGGAGACTAAGTCTCAGAGTCTGTCATATGCATCTTTAAAAG  
 CTGGGTCCCATGATCCCAATGCAGGAATCAGAGTCTTGAATTCTCCACCATGAAAGCTGAAATGAAAGA  
 GAGGGACAAGGCAAAATGAAATCAGACCCATGCAAGTCACTGACTAGTGTGAGAAAGTCGGTGAACAC  
 ATTTCTCAAAGAGGGCCTAACCATCTGGAACCAAAAGCAAGGAACTCATGCAAGGTGGCTACCAAAGCAT  
 GCAGCAATAAAGATGAGAAAGGAGAAAAGATCAATGCTTCCACAGATTCAGTGGCCAAGGACCTGATTGT  
 CTCTGCCCTTAAGCTGATCCAGTACCATCTGACCCAGCAGACTAAGGGCAAAGATACATGTGAAGAAGAC  
 TGTCTGGTTCCACCATGGGCTATATGGCTCAGAGTACTCAATATGAAAAGTGTGGAGGTGGCCAAAGTG  
 CCAAAGCACTTTTCAAGTGAACAACCTAGAAATCTCACAGAGCCCCTGGACCATCCACCTGTCAAAGGAGAA  
 CCAACACCTGGACTCCCAGAAAATGGATATGTCAAACATCGTTCTAATGCTGATTGAGAACTGCTTAAT  
 GAGAACCCTTCAAATGTGAGGATCCATGCGAAGGTGAGAACAAGTGTCTGAGCCAGGGCAAGCAAAG  
 CAGCTTCCATGTCCAACAGATCTGACAAAGCGGAAGAACAATGCCAGGAGCATCAAGAACTTGACTGTAC  
 CAGTGGGATGAAGCAAGCGAACGGGCAATTTATAGATAAACTAGTAGAATCTGTGATGAAGCTCTGCCTT  
 ATCATGGCTAAGTATAGCAACGATGGGGCAGCCCTTGTGAGTTGGAAGAACAAGCAGCCTCGGCAATA  
 AGCCCAATTTTCAAGGGCACCAGATGCATTCACAGTGGTGAATGCCACAGAACTATCAAGACTCTCTTGG  
 ACATGAAGTAATTGTCAATAATCAGTGTCTACAATAGCTTGCAGAAGCAGCTCCAGGCTGTCTGTCAG  
 TGGATTGCAGCCTCCAGTTTAACTGAGCCATGCTCTACTTCAAGGAGATAAGGATGGACAACCTGGAAA  
 AGCTTCTCAGGTTTCAAGTAAAGCAGCAGAGAAGGGGTACAGTGTAGGAGGTCTTCTTCAAGAGGTGAT  
 GAAGTTTGCAAGGAACGGCAACCCAGATGAAGCTGTGGAAAGGTGGCCAGGAAACAGTTGCTGGACTGG  
 CTGCTCGCTAACCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC217793 representing NM\_139289  
 Red=Cloning site Green=Tags(s)

MSDDIDWLRSHRGVCKVDLYNPEGQQDQDRKVICFVDVSTLNVEDKDYKDAASSSSEGNLNLGSLEEKEI  
 IVIKDTEKKDQSKTEGSVCLFKQAPSDPVSVLNWLLSDLQKYALGFQHALSPSTSTCKHKVGDTEGEYHR  
 ASSENCYSVYADQVNIDYLMNRPQNLRLLEMTAAKNTNNNQSPSAPPAKPPSTQRAVISPDGECSIDDLSF  
 YVNRSSLVIQMAHKEIKEKLEGGKSKCLHHSICSPGNKERISPRTPASKIASEMAYEAVELTAAEMRGT  
 GEESREGGQKSFLYSEL SNKSKSGDKQMSQRESKEFADSI SKGLM VYANQV ASDMMVSLMKTLKVHSSGK  
 PIPASVVLKRVLLRHTKEIVSDLIDSCMKNLHNITGVLMTDSDFVSAVKRNLFNQWKQNTDIMEAMLKR  
 LVSALIGEEKETKSQSLSYASLKAGSHDPKCRNQSLFSTMKAEMKERDKGKMKSDPCKSLTSAEKVGEH  
 ILKEGLTIWNQKQGNCKVATKACSNKDEKGEKINASTDSLAKDLIVSALKLIQYHLTQQTKGKDTCEED  
 CPGSTMGYMAQSTQYEKCGGQSAKALSVKQLESHRAPGPSTCQKENQHLD SQKMDMSNI VMLIQKLLN  
 ENPFKCEDPCEGENKCSEPRASKAASMSNRSDKAEEQCEHQELDCTSGMKQANGQFIDKLVESVMKLCCL  
 IMAKYSNDGAALAELEEQAASANKPNFRGTRCIHSGAMPQNYQDSL GHEVIVNNQCSTNSLQKQLQAVLQ  
 WIAASQFNVPMPLYFMGDKDGQLEKLPQVSAKAAEKGYSVGGLLQEVMKFAKERQPDEAVGKVARKQLLDW  
 LLANL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8106\\_a07.zip](https://cdn.origene.com/chromatograms/mk8106_a07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

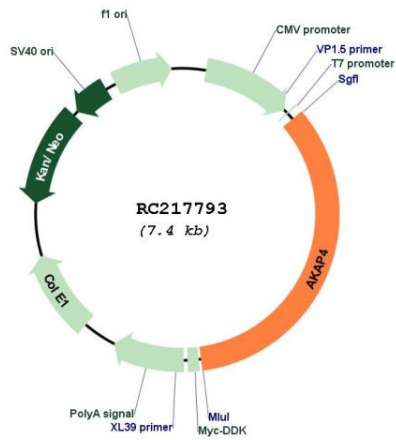
Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

<b>ACCN:</b>	NM_139289
<b>ORF Size:</b>	2535 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_139289.2</a>
<b>RefSeq Size:</b>	2867 bp
<b>RefSeq ORF:</b>	2538 bp
<b>Locus ID:</b>	8852
<b>UniProt ID:</b>	<a href="#">Q5JQC9</a>
<b>Cytogenetics:</b>	Xp11.22
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	93.3 kDa
<b>Gene Summary:</b>	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 RC217793