

## Product datasheet for **SC303398**

### **AKAP4 (NM\_003886) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	AKAP4 (NM_003886) Human Untagged Clone
Tag:	Tag Free
Symbol:	AKAP4
Synonyms:	AKAP-4; AKAP 82; AKAP82; CT99; FSC1; hAKAP82; HI; p82; PRKA4
Vector:	<u>pCMV6 series</u>



[View online »](#)

**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_003886, the custom clone sequence may differ by one or more nucleotides

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ATGATGGCGTACTCTGATACTACAATGATGTCTGATGATATTGACTGGTTACGCAGCCAC
AGGGGTGTGTGCAAGGTAGATCTCTACAACCCAGAAGGACAGCAAGATCAGGACCCGAAA
GTGATATGCTTTGTGCGATGTGCCACCCTGAATGTAGAAGATAAAGATTACAAGGATGCT
GCTAGTTCCAGCTCAGAAGGCAACTTAAACCTGGGAAGTCTGGAAGAAAAAGAGATTATC
GTGATCAAGGACACTGAGAAGAAAGACCAGTCTAAGACAGAGGGATCTGTATGCCTTTTC
AAACAAGCTCCCTCTGATCCTGTAAGTGTCTCAACTGGCTTCTCAGTGATCTCCAGAAG
TATGCCTTGGGTTTCCAACATGCACTGAGCCCTCAACCTCTACCTGTAACATAAAGTA
GGAGACACAGAGGGCGAATATCACAGAGCATCCTCTGAGAACTGTACAGTGTCTATGCC
GATCAAGTGAACATAGATTATTTGATGAACAGACCTCAAACCTACGTCTAGAAATGACA
GCAGCTAAAAACCAACAATAATCAAAGTCTTCAGCTCCTCCAGCCAAACCTCCTAGC
ACTCAGAGAGCAGTCATTTCCCCTGATGGAGAATGTTCTATAGATGACCTTTCTTCTAC
GTCAACCGACTATCTTCTCTGGTAATCCAGATGGCCCATAAAGAAATCAAGGAGAAGTTG
GAAGGTAAGCAAAATGCCTTCATCATTCAATCTGTCCATCCCCTGGGAACAAAGAGAGA
ATCAGTCCCCGAACCTCCTGCGAGCAAGATTGCTTCTGAAATGGCCTATGAAGCTGTGGAA
CTGACAGCTGCAGAAATGCGTGGCACTGGAGAGGAGTCCAGGGAAGGTGGCCAGAAAAGC
TTTCTATATAGCGAATTATCCAACAAGAGCAAAAGTGGAGACAAACAGATGTCCAGAGA
GAGAGCAAAGAATTTGCAGATCCATCAGCAAGGGGCTCATGGTTTATGCAAATCAGGTG
GCATCTGACATGATGGTCTCTCATGAAGACCTTGAAGTGCACAGCTCTGGGAAGCCA
ATTCCAGCATCTGTGGTCTGAAGAGGGTGTGCTAAGGCACACCAAGGAGATTGTGTCC
GATTTGATTGATTCTTGCATGAAGAACCTGCATAATATTACTGGGGTCTGATGACTGAC
TCAGACTTTGTCTCAGCTGTCAAGAGAAATCTGTTCAACCAGTGGAAACAAAATGTACA
GACATCATGGAGCCATGCTGAAGCGCTTGGTCACTGCCCTTATAGGTGAGGAGAAGGAG
ACTAAGTCTCAGAGTCTGCATATGCATCTTTAAAGCTGGGTCCCATGATCCCAATGC
AGGAATCAGAGTCTTGAATTCTCCACCATGAAAGCTGAAATGAAAGAGAGGGACAAAGGC
AAAATGAAATCAGACCCATGCAAGTCACTGACTAGTGCTGAGAAAGTCGGTGAACACATT
CTCAAAGAGGGCCTAACCATCTGGAACCAAAAGCAAGGAACTCATGCAAGGTGGCTACC
AAAGCATGCAGCAATAAAGATGAGAAAGGAGAAAAGATCAATGCTTCCACAGATTCAGT
GCCAAGGACCTGATTGTCTCTGCCCTTAAGCTGATCCAGTACCATCTGACCCAGCAGACT
AAGGGCAAAGATACATGTGAAGAAGACTGCTCCTGGTCCACCATGGGCTATATGGCTCAG
AGTACTCAATATGAAAAGTGTGGAGGTGGCCAAAGTGCCAAAGCACTTTCAGTGAAACAA
CTAGAATCTCACAGAGCCCTGGACCATCCACCTGTCAAAGGAGAACCAACACCTGGAC
TCCCAGAAAATGGATATGTCAAACATCGTTCTAATGCTGATTGAGAACTGCTTAATGAG
AACCCCTTCAAATGTGAGGATCCATGCGAAGGTGAGAACAAGTGTCTGAGCCCAGGGCA
AGCAAAGCAGCTTCCATGTCCAACAGATCTGACAAAGCGGAAGAACAATGCCAGGAGCAT
CAAGAACTTGACTGTACCAGTGGGATGAAGCAAGCGAACGGCAATTTATAGATAAACTA
GTAGAATCTGTGATGAAGCTCTGCCTTATCATGGCTAAGTATAGCAACGATGGGGCAGCC
CTTGCTGAGTTGGAAGAACAAGCAGCCTCGGCAATAAGCCCAATTTTCAGGGGCACCCAGA
TGCAATCACAGTGGTGAATGCCACAGAACTATCAAGACTCTCTTGGACATGAAGTAATT
GTCAATAATCAGTGCTCTACAAATAGCTTGCAAGCAGCTCCAGGCTGTCTGCAGTGG
ATTGCAGCTCCAGTTTAACTGCCCATGCTCTACTTTCATGGGAGATAAGGATGGACAA
CTGAAAAGCTTCTCAGGTTTTCAGCTAAAGCAGCAGAGAAGGGGTACAGTGTAGGAGGT
CTTCTTCAAGAGGTGATGAAGTTTGCCAAGGAACGGCAACCAGATGAAGCTGTGGGAAAG
GTGGCCAGGAAACAGTTGCTGGACTGGCTGCTCGCTAACCTGTGA

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**Restriction Sites:** Please inquire

**ACCN:** NM\_003886

**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](mailto: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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_003886.2](#), [NP\\_003877.2](#)

**RefSeq Size:** 2881 bp

**RefSeq ORF:** 2565 bp

**Locus ID:** 8852

**UniProt ID:** [Q5JQC9](#)

**Cytogenetics:** Xp11.22

**Protein Families:** Druggable Genome

**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]  
Transcript Variant: This variant (1) includes an alternate 5' exon and encodes a longer isoform, as compared to variant 2.