

Product datasheet for **SC306141**

AKAP4 (NM_139289) Human Untagged Clone

Product data:

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



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Fully Sequenced ORF: >NCBI ORF sequence for NM_139289, the custom clone sequence may differ by one or more nucleotides

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ATGTCTGATGATATTGACTGGTTACGCAGCCACAGGGGTGTGTGCAAGGTAGATCTCTAC
AACCCAGAAGGACAGCAAGATCAGGACCGGAAAGTGATATGCTTTGTGCGATGTGCCACC
CTGAATGTAGAAGATAAAGATTACAAGGATGCTGCTAGTTCAGCTCAGAAGGCAACTTA
AACCTGGGAAGTCTGGAAGAAAAAGAGATTATCGTGATCAAGGACACTGAGAAGAAGAC
CAGTCTAAGACAGAGGGATCTGTATGCCTTTTCAAACAAGCTCCCTCTGATCCTGTAAGT
GTCCTCAACTGGCTTCTCAGTGATCTCCAGAAGTATGCCTTGGGTTTCCAACATGCACTG
AGCCCCCAACCTCTACCTGTAAACATAAAGTAGGAGACACAGAGGGCGAATATCACAGA
GCATCCTCTGAGAACTGTACAGTGTCTATGCCGATCAAGTGAACATAGATTATTTGATG
AACAGACCTCAAACCTACGTCTAGAAATGACAGCAGCTAAAAACCAACAATAATCAA
AGTCTTCAGCTCCTCCAGCCAAACCTCCTAGCACTCAGAGAGCAGTCATTTCCCTGAT
GGAGAATGTTCTATAGATGACCTTTCCTTCTACGTCAACCGACTATCTTCTCTGGTAATC
CAGATGGCCCATAAAGAAATCAAGGAGAAGTTGGAAGGTAAAAGCAAATGCCTTCATCAT
TCAATCTGTCCATCCCCTGGGAACAAGAGAGAATCAGTCCCCGAACCTCTGCGAGCAAG
ATTGCTTCTGAAATGGCCTATGAAGCTGTGGAACCTGACAGCTGCAGAAATGCGTGGCACT
GGAGAGGAGTCCAGGGAAGGTGGCCAGAAAAGCTTTCTATATAGCGAATTATCCAACAAG
AGCAAAAGTGGAGACAAACAGATGTCCCAGAGAGAGAGCAAGAATTTGCAGATTCCATC
AGCAAGGGGCTCATGGTTTATGCAAAATCAGGTGGCATCTGACATGATGGTCTCTCTCATG
AAGACCTTGAAAGTGCACAGCTCTGGGAAGCCAATCCAGCATCTGTGGTCTCTGAAGAGG
GTGTTGCTAAGGCACACCAAGGAGATTGTGTCGGATTTGATTGATTCTTGCATGAAGAAC
CTGCATAATATTACTGGGGTCTGTGACTGACTCAGACTTTGTCTCAGCTGTCAAGAGA
AATCTGTTCAACCAGTGGAAACAAAATGCTACAGACATCATGGAGGCCATGCTGAAGCGC
TTGGTCAGTGCCCTTATAGGTGAGGAGAAGGAGACTAAGTCTCAGAGTCTGTCTATGCA
TCTTTAAAAGCTGGGTCCCATGATCCCAAATGCAGGAATCAGAGTCTTGAATTCTCCACC
ATGAAAGCTGAAATGAAAGAGAGGGACAAAGGCAAAATGAAATCAGACCCATGCAAGTCA
CTGACTAGTGCTGAGAAAGTCGGTGAACACATTCTCAAAGAGGGCCTAACCATCTGGAAC
CAAAAGCAAGGAACTCATGCAAGGTGGCTACCAAAGCATGCAGCAATAAAGATGAGAAA
GGAGAAAAGATCAATGCTTCCACAGATTCAGTGGCCAAGGACCTGATTGTCTCTGCCCTT
AAGCTGATCCAGTACCATCTGACCCAGCAGACTAAGGGCAAAGATACATGTGAAGAAGAC
TGTCTGGTTCCACCATGGGCTATATGGCTCAGAGTACTCAATATGAAAAGTGTGGAGGT
GGCCAAAGTGCCAAAGCACTTTCAGTGAAACAACCTAGAATCTCACAGAGCCCTGGACCA
TCCACCTGTCAAAGGAGAACCAACACCTGGACTCCCAGAAAATGGATATGTCAAACATC
GTTCTAATGCTGATTCAGAAACTGCTTAATGAGAACCCCTTCAAATGTGAGGATCCATGC
GAAGGTGAGAACAAGTGTCTGAGCCCAGGGCAAGCAAAGCAGCTTCCATGTCCAACAGA
TCTGACAAAGCGGAAGAACAATGCCAGGAGCATCAAGAACTTGACTGTACCAGTGGGATG
AAGCAAGCGAACGGCAATTTATAGATAAACTAGTAGAATCTGTGATGAAGCTCTGCCTT
ATCATGGCTAAGTATAGCAACGATGGGGCAGCCCTTGTGAGTTGGAAGAACAAGCAGCC
TCGGCAAATAAGCCCAATTTTCAGGGGCACCAGATGCATTACAGTGGTGCATGCCACAG
AACTATCAAGACTCTCTTGGACATGAAGTAATTGTCAATAATCAGTGCTCTACAAATAGC
TTGCAGAAGCAGCTCCAGGCTGTCTGCAGTGGATTGCAGCCTCCAGTTTAACGTGCC
ATGCTCTACTTTCATGGGAGATAAGGATGGACAACCTGAAAAGCTTCTCAGGTTTCAGCT
AAAGCAGCAGAGAAGGGGTACAGTGTAGGAGGTCTTCTTCAAGAGGTCATGAAGTTTGC
AAGGAACGGCAACCAGATGAAGCTGTGGGAAAGGTGGCCAGGAAACAGTTGCTGGACTGG
CTGCTCGCTAACCTGTGA

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Restriction Sites: Please inquire

ACCN: NM_139289

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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:	<u>NM_139289.1</u> , <u>NP_647450.1</u>
RefSeq Size:	2867 bp
RefSeq ORF:	2538 bp
Locus ID:	8852
UniProt ID:	<u>Q5JQC9</u>
Cytogenetics:	Xp11.22
Protein Families:	Druggable Genome
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) includes an alternate 5' exon, which lacks an ATG start codon, as compared to variant 1. This variant uses a downstream in-frame start codon, and thus encodes a shorter isoform.</p>