

## Product datasheet for **SC115681**

### AKAP10 (NM\_007202) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AKAP10 (NM_007202) Human Untagged Clone
Tag:	Tag Free
Symbol:	AKAP10
Synonyms:	AKAP-10; D-AKAP-2; D-AKAP2; PRKA10
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC115681 sequence for NM\_007202 edited (data generated by NextGen Sequencing)

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ATGAGGGGAGCCGGGCCCTCCCCGCGCCAGTCCCCCGCACCCCTCCGTCCCAGCCCGGGC
CCCCCATGTCCTTCTCCGCGCGAAAGTGAAAGGCAAAGAACAAGAGAAGACCTCAGAT
GTGAAGTCCATTAAGCTTCAATATCCGTACATCCCCACAAAAAAGCACTAAAAATCAT
GCCTTGCTGGAGGCTGCAGGACCAAGTCATGTTGCAATCAATGCCATTTCTGCCAACATG
GACTCCTTTTCAAGTAGCAGGACAGCCACACTTAAGAAGCAGCCAAGCCACATGGAGGCC
GCTCATTTTGGTACCTGGGCAGATCTTGTCTGGACTACCAGACTCAAGAGACCAAATCA
AGCCTTTCTAAGACCCTTGAACAAGTCTTGACAGCACTATTGTCTCCCTTACTTCATT
CAATTCATGGAACCTTCGGCGAATGGAGCATTTGGTGAATTTTGGTTAGAGGCTGAAAGT
TTTCATTCAACAACCTTGGTCGCGAATAAGAGCACACAGTCTAACACAGTGAAGCAGAGC
TCACTGGCTGAGCCTGTCTCTCCATCTAAAAAGCATGAACTACAGCGTCTTTTTAACT
GATTCTCTTGATAAGAGATTGGAGGATTCTGGCTCAGCACAGTTGTTTATGACTCATTCA
GAAGGAATTGACCTGAATAATAGAATAACAGCACTCAGAATCACTTGCTGCTTTCCAG
GAATGTGACAGTGCCTTCTCTCCGTCTTGAATGGCCAGAGCAGGAATCACCAAGTT
TCCATGGAACCAAGAATCTTCTCTACACTTACAGTAGCCAGTAGAAATAGTCCCGCT
TCTCCACTAAAAGAAATTGTCAGGAAAATAATGAAAAGTATAGAACAAGATGCAGTGAAT
ACTTTTACCAATATATATCTCCAGATGCTGCTAAACCAATACCAATTACAGAAGCAATG
AGAAATGACATCATAGCAAGGATTTGTGGAGAAGATGGACAGGTGGATCCCAACTGTTTC
GTTTTGGCACAGTCCATAGTCTTTAGTGCAATGGAGCAAGAGCACTTTAGTGAGTTTCTG
CGAAGTCAACATTTCTGTAATACCAGATTGAAGTGCTGACCAGTGGAACTGTTTACCTG
GCTGACATTCTCTCTGTGAGTCAGCCCTTTTTATTTCTCTGAGTACATGGAAAAAGAG
GATGCAGTGAATATCTTACAATTCTGGTTGGCAGCAGATAACTTCCAGTCTCAGCTTGCT
GCCAAAAAGGGCCAATATGATGGACAGGAGGCACAGAATGATGCCATGATTTTATATGAC
AAGTACTTCTCCCTCCAAGCCACACATCCTCTTGGATTTGATGATGTTGTACGATTAGAA
ATTGAATCCAATATCTGCAGGGAAGGTGGGCCACTCCCCAACTGTTTCACAACTCCATTA
CGTCAGGCCTGGACAACCATGGAGAAGGTCTTTTTGCCTGGCTTTTTGTCCAGCAATCTT
TATTATAAATATTTGAATGATCTCATCCATTCCGTTTCGAGGAGATGAATTTCTGGGCGG
AACGTGTCGCTGACTGCTCCTGGCTCTGTTGGCCCTCCTGATGAGTCTCACCCAGGGAGT
TCTGACAGCTCTGCGTCTCAGTCCAGTGTAAAAAAGCCAGTATTAATAACTGAAAAAT
TTTGATGAAGCGATAATTGTGGATGCGGCAAGTCTGGATCCAGAATCTTTATATCAACGG
ACATATGCCGGGAAGATGACATTTGGAAGAGTCAGTACTTGGGCAATTCATCCGAGAA
TCTGAGCCTGAACCTGATGTAAGGAAATCAAAGGATCCATGTTCTCACAAGCTATGAAG
AAATGGGTGCAAGGAAATACTGATGAGGCCAGGAAGAGCTAGCTTGAAGATTGCTAAA
ATGATAGTCAGTGACATTATGCAGCAGGCTCAGTATGATCAACCGTTAGAGAAATCTACA
AAGTTATGA
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Clone variation with respect to NM\_007202.2

<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_007202 unedited TGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCGGCCGGTTGCTGA ATGAGGGGAGCCGGGCCCTCCCCGCGCCAGTCCCCCGCACCCCTCCGTCCCGACCCGGGC CCCGCCATGTCCTTCTCCGGCGGAAAGTGAAAGGCAAAGAACAAGAGAAGACCTCAGAT GTGAAGTCCATTAAGCTTCAATATCCGTACATTCCCCACAAAAAAGCACTAAAAATCAT GCCTTGCTGGAGGCTGCAGGACCAAGTCATGTTGCAATCAATGCCATTTCTGCCAACATG GACTCCTTTTCAAGTAGCAGGACAGCCACTTAAGAAGCAGCCAAGCCACATGGAGGCC GCTCATTGTTGGTACCTGGGCAGATCTTGCTGGACTACCAAGACTCAAGAGACCAATCA AGCCTTTCTAAGACCCTTGAACAAGTCTTGACAGCACTATTGTCTCCCTTACTTCATT CAATTCATGGAACCTTCGGCGAATGGAGCATTTGGTGAATTTTGGTTAGAGGCTGAAAGT TTTCATTCAACAACCTTGGTCGCGAATAAGAGCACACAGTCTAACACAGTGAAGCAGAGC TCACTGGCTGAGCCTGTCTCTCCATCTAAAAAGCATGAACTACAGCGTCTTTTTAACT GATTCTCTTGATAAGAGATTGGAGGATTCTGGCTCAGCACAGTTGTTTATGACTCATTCA GAAGGAATTGACCTGAATATAGAACTAACAGCACTCAGAATCACTTGCTGCTTTCCAGG AATGTGACAGTGCCCATCTCTNCCGTCTGAATGGCCAGAGCAGAACTCACCAGTTCCAT GGNAACCCAGATCTNCTACACTACATAGCCAGAAAATAGTCCGCTT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_007202
<b>Insert Size:</b>	3520 bp
<b>OTI Disclaimer:</b>	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).
<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_007202.2</a> , <a href="#">NP_009133.2</a>
<b>RefSeq Size:</b>	2929 bp
<b>RefSeq ORF:</b>	1989 bp
<b>Locus ID:</b>	11216
<b>UniProt ID:</b>	<a href="#">O43572</a>
<b>Cytogenetics:</b>	17p11.2
<b>Domains:</b>	RGS
<b>Protein Families:</b>	Druggable Genome

**Gene Summary:**

This gene encodes a member of the A-kinase anchor protein family. A-kinase anchor proteins bind to the regulatory subunits of protein kinase A (PKA) and confine the holoenzyme to discrete locations within the cell. The encoded protein is localized to mitochondria and interacts with both the type I and type II regulatory subunits of PKA. Polymorphisms in this gene may be associated with increased risk of arrhythmias and sudden cardiac death. [provided by RefSeq, May 2012]