

Product datasheet for **SC324657**

AKAP10 (NM_007202) Human Untagged Clone

Product data:

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| 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: | Neomycin |
| Vector: | pCMV6-AC (PS100020) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >OriGene sequence for NM_007202.2
 CTTGTTGATAATATGGCGGCTGGAGCTGCCTGGGCATCCCGAGGAGGCGGTGGGGCCAC
 TCCCGGAAGAAGGGTCCCTTTTCGCGCTAGTGCAGCGGCCCTCTGGACCCGGAAGTCCG
 GGCCGGTTGCTGAATGAGGGGAGCCGGGCCCTCCCGCGCCAGTCCCCCGCACCTCCG
 TCCCGACCCGGGCCCCGCCATGTCTTCTCCGGCGAAAAGTAAAGGCAAGAACAAGA
 GAAGACCTCAGATGTGAAGTCCATTAAGCTTCAATATCCGTACATTTCCCAAAAAAG
 CACTAAAAATCATGCCTTGTGGAGGCTGCAGGACCAAGTCATGTTGCAATCAATGCCAT
 TTCTGCCAACATGGACTCCTTTTCAAGTAGCAGGACAGCCACACTTAAGAAGCAGCCAAG
 CCACATGGAGGCCGCTCATTTTGGTGACCTGGGCAGATCTTGTCTGGACTACCAGACTCA
 AGAGACCAAAATCAAGCCTTTCTAAGACCCTTGAACAAGTCTTGACGACACTATTGTCT
 CCCTTACTTCATTCAATTCATGGAACCTTCGGCGAATGGAGCATTGGTGAATTTTGGTT
 AGAGGCTGAAAGTTTTCATTCAACAACCTGGTCGCGAATAAGAGCACACAGTCTAAACAC
 AGTGAAGCAGAGCTCACTGGCTGAGCCTGTCTCCATCTAAAAAGCATGAACTACAGC
 GTCTTTTTAACTGATTCTTTGATAAGAGATTGGAGGATTCTGGCTCAGCACAGTTGTT
 TATGACTCATTAGAAGGAATTGACCTGAATAATAGAATAACAGCACTCAGAATCACTT
 GCTGCTTTCCAGGAATGTGACAGTGCCATTCTCTCCGTCTGAAATGGCCAGAGCAGG
 AACTCACCAAGTTTCCATGGAAACCCAAGAATCTCTCTACACTTACAGTAGCCAGTAG
 AAATAGTCCCCTTCTCCACTAAAAGAAATGTCAGGAAAATAATGAAAAGTATAGAACA
 AGATGCAGTGAATACTTTTACCAAAATATATCTCCAGATGCTGCTAAACCAATACCAAT
 TACAGAAGCAATGAGAAATGACATCATAGCAAGGATTTGTGGAGAAGATGGACAGGTGGA
 TCCCAACTGTTTCGTTTTGGCACAGTCCATAGTCTTTAGTGCAATGGAGCAAGAGCACTT
 TAGTGAGTTTCTCGAAGTCACCATTTCTGTAATACCAGATTGAAGTCTGACCAGTGG
 AACTGTTTACCTGGCTGACATTTCTTCTGTGAGTCAGCCCTCTTTTATTTCTCTGAGTA
 CATGAAAAAAGAGGATGCAGTGAATATCTTACAATTCTGGTTGGCAGCAGATAACTTCCA
 GTCTCAGCTTGTGCCAAAAAGGCCAATATGATGGACAGGAGGCACAGAATGATGCCAT
 GATTTTATATGACAAGTACTTCTCCCTCCAAGCCACACATCCTCTGGATTTGATGATGT
 TGTACGATTAGAAATGAATCCAATATCTGCAGGGAAGGTGGGCCACTCCCCAAGTGT
 CACAACCTCATTACGTCAGGCCTGGACAACCATGGAGAAGGTCTTTTGCCTGGCTTTTT
 GTCCAGCAATCTTTATTATAAATATTTGAATGATCTCATCCATTCGGTTCGAGGAGATGA
 ATTTCTGGGCGGAACGTGTCGCTGACTGCTCCTGGCTCTGTTGGCCCTCCTGATGAGTC
 TCAACCAGGGAGTTCTGACAGCTCTGCGTCTCAGTCCAGTGTAAAAAAGCCAGTATTA
 AATACTGAAAAATTTTGTGAAGCGATAATTGTGGATGCGGCAAGTCTGGATCCAGAATC
 TTTATATCAACCGACATATGCCGGGAAGATGACATTTGGAAGAGTCAGTACTTGGGGCA
 ATTCATCCGAGAATCTGAGCCTGAACCTGATGTAAGGAAATCAAAGGATCCATGTTCTC
 ACAAGCTATGAAGAAATGGGTGCAAGGAAATACTGATGAGGCCAGGAAGAGCTAGCTTG
 GAAGATTGCTAAAATGATAGTCAGTGACATTATGCAGCAGGCTCAGTATGATCAACCGTT
 AGAGAAATCTACAAAGTTATGACTCAAACTTGAGATAAAGGAAATCTGCTTGTGAAAA
 TAAGAGAACTTTTTCCCTTGGTTGGATTCTTCAACACAGCCAATGAAAACAGCACTATA
 TTTCTGATCTGCACTGTTGTTTCCAGGAGAGAATGGGAGACAATCCTAGACTTCCACCA
 TAATGCAGTTACCTGTAGGCATAATTGATGCACATGATGTTACACAGTGAGAGTCTTAA
 AGATACAAAATGGTATTGTTTACATTAAGAAAATTATTAGTTTTCCAATGGCAATAAC
 CCATTTATGAGAGTGTGTTTAGCCTACTGGAATAGACAGGGACCACATCCTCTGGGAAGCA
 GATAAGCATAGAAGTACTTGTGATGCACACTCGTAGTGGTAACTCATCCCTAATCAGCA
 TTGTAAGCAGGTGCCAGAGGTGGTTTGCCTTCCAAAGCAGGTGAGTCAGCCCC
 ACCGAGAGCCAGGCAGCTTTGAGTGGCAGCGTGGTCTAGCAGCTTACAGCGGAACAGGT
 GAGAGTTAATTATGCAGTCTTCTGACAGCGGCATTAATTTGGAAGGAACTGACAAGTC
 ATGGGTCAAGTTTCAAGTACTTCTCCTCCTCTGATGGCAGTATATAGTTTTACATTT
 TAATTCCTCCTGAGATGCACTATACTTAAACCATTTCTCCTCCCTGCTAACAGAAGG
 GTGTGAATCTGGTTTACTTTGAGCATTAGGATTTGCCCTTTGGAATTCTGCACTCCAGT
 TACTTAACTTTCCCTTCAAGAACATACATGTGGAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

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| ACCN: | NM_007202 |
| 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: | NM_007202.2 , NP_009133.2 |
| RefSeq Size: | 2929 bp |
| RefSeq ORF: | 1989 bp |
| Locus ID: | 11216 |
| UniProt ID: | O43572 |
| Cytogenetics: | 17p11.2 |
| Domains: | RGS |
| Protein Families: | 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] |