

## Product datasheet for **RC202174**

### **AKAP10 (NM\_007202) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	AKAP10 (NM_007202) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AKAP10
Synonyms:	AKAP-10; D-AKAP-2; D-AKAP2; PRKA10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC202174 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAGGGGAGCCGGCCCTCCCCGCCAGTCCCCCGCACCCCTCCGTCGACCCGGGCCCCGCCATGT  
CCTTCTCCGGCGAAAGTGAAAGGCAAAGAACAAGAGAAGACCTCAGATGTGAAGTCCATTAAAGCTTC  
AATATCCGTACATTCCCCACAAAAAGCACTAAAAATCATGCCTTGTGGAGGCTGCAGGACCAAGTCAT  
GTTGCAATCAATGCCATTTCTGCCAACATGGACTCCTTTTCAAGTAGCAGGACAGCCACACTTAAGAAGC  
AGCCAAGCCACATGGAGGCCGCTCATTTTGGTACCTGGGCAGATCTTGTCTGGACTACCAGACTCAAGA  
GACCAATCAAGCCTTTCTAAGACCTTGAACAAGTCTTGACGACACTATTGCCTCCCTTACTTCATT  
CAATTCATGGAACCTCGCGAATGGAGCATTGGTGAAATTTGGTTAGAGGCTGAAAGTTTTTCATTCAA  
CAACTTGGTCGCGAATAAGAGCACACAGTCTAACACAGTGAAGCAGAGCTCACTGGCTGAGCCTGTCTC  
TCCATCTAAAAAGCATGAACTACAGCGTCTTTTTAACTGATTCTCTTGATAAGAGATTGGAGGATTCT  
GGCTCAGCACAGTTGTTTATGACTCATTAGAAGGAATTGACCTGAATAATAGAATAACAGCACTCAGA  
ATCACTTGCTGCTTTCCAGGAATGTGACAGTGCCCATTTCTCCGTCCTGAAATGGCCAGAGCAGGAAC  
TCACCAAGTTTCCATGGAACCCAAGAATCTTCTCTACACTTACAGTAGCCAGTAGAAATAGTCCCCT  
TCTCCACTAAAAGAAATTGTCAGGAAAATAATGAAAAGTATAGAACAAGATGCAGTGAATACTTTTACCA  
AATATATATCTCCAGATGCTGCTAAACCAATACCAATTACAGAAGCAATGAGAAATGACATCATAGCAAG  
GATTTGTGGAGAAGATGGACAGGTGGATCCCACTGTTTCGTTTTGGCACAGTCCATAGTCTTTAGTGCA  
ATGGAGCAAGAGCACTTTAGTGAGTTCTGCGAAGTACCATTCTGTAATACCAGATTGAAGTGCTGA  
CCAGTGGAACTGTTTACCTGGCTGACATTCTCTCTGTGAGTCAGCCCTTTTTATTCTCTGAGTACAT  
GGAAAAAGAGGATGCAGTGAATATCTTACAATTCTGGTTGGCAGCAGATAACTTCCAGTCTCAGCTTGCT  
GCCAAAAAGGCCAATATGATGGACAGGAGGCACAGAATGATGCCATGATTTTATATGACAAGTACTTCT  
CCCTCCAAGCCACACATCCTCTTGATTGATGATGTTGTACGATTAGAAATGAAATCCAATATCTGCAG  
GGAAGGTGGGCCACTCCCCAACTGTTTCACTCCATTACGTCAGGCCTGGACAACCATGGAGAAGGTC  
TTTTTGCCTGGCTTTTGTCCAGCAATCTTTATTATAAATATTTGAATGATCTCATCCATTCGGTTCGAG  
GAGATGAATTTCTGGCGGGAACGTGTCGCTGACTGCTCCTGGCTCTGTTGGCCCTCTGATGAGTCTCA  
CCCAGGGAGTTCTGACAGCTCTGCGTCTCAGTCCAGTGTGAAAAAGCCAGTATTAATACTGAAAAAT  
TTTGATGAAGCGATAATTGTGGATGCGCAAGTCTGGATCCAGAATCTTTATATCAACGGACATATGCCG  
GGAAGATGACATTTGGAAGAGTCAGTGACTTGGGGCAATTCATCCGAGAATCTGAGCCTGAACCTGATGT  
AAGGAAATCAAAAAGGATCCATGTTCTCACAAAGCTATGAAGAAATGGGTGCAAGGAAATACTGATAGGCC  
CAGGAAGAGCTAGCTTGGGAAGATTGCTAAAATGATAGTCAGTGACATTATGCAGCAGGCTCAGTATGATC  
AACCGTTAGAGAAATCTACAAAGTTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**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\\_007202.4](#)

**RefSeq Size:** 3941 bp

**RefSeq ORF:** 1989 bp

**Locus ID:** 11216

**UniProt ID:** [O43572](#)

**Cytogenetics:** 17p11.2

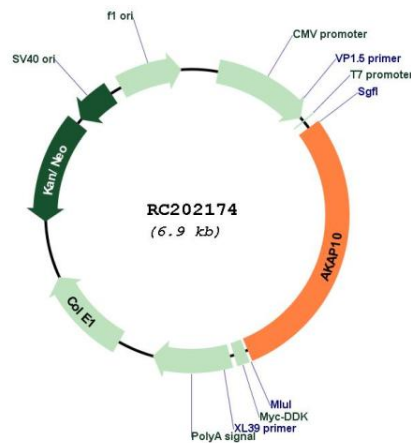
**Domains:** RGS

**Protein Families:** Druggable Genome

**MW:** 73.8 kDa

**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]

### Product images:



Circular map for RC202174