

## Product datasheet for **MC220256**

### Akap10 (NM\_019921) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Akap10 (NM_019921) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Akap10
Synonyms:	1500031L16Rik; B130049N18Rik; D-AK; D-AKAP-2; D-AKAP2; PRKA10
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC220256 representing NM\_019921  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGGGGAGCCGGCCCTCCCCGCGACTCCCCCGGCCCTCCGCCCGACCCGGGCCCCGCCATGT  
 CCTTCTCCGGCGAAAGTGAAAGGTAAAGAGCAAGAGAAGACCTTAGATGTCAAGTCCACTAAAGCTTC  
 AGTAGCCGTACATTCCCCACAAAAAGCACTAAAAATCATGCCTTCTGGAGGCTGCAGGACCAAGTCAT  
 GTTGCGATCAATGCCATTTCTGCCAACATGGACTCCTTTTCAAGTAGCAGGACAGCAACGCTTAAGAAAC  
 AGCCAAGCCACATGGAGGCTGCTCATTTTGGAGACCTAGGCAGATCCTGTCTGGACTATCAGACTCAAGA  
 GACCAATCCAGTCTTTCAAAGACCTTGAACAAGTCTTGCCTGACTGTTGCTCCTCCATATTTCTT  
 CAGTTTATGGAACCTCGGAGAATGGAGCACCTGGTGAATTTGGTTAGAGGCTGAAAGTTTCACTCTA  
 CAACGTGGTCCCGAATAAGAGCACACAGTCTAAACACAGTGAAACAGAGTTCCTGGCTGAGCCTGTCTC  
 TCCATCTAAAAGACATGAGACTCCAGCATCTTCTGTAAGTGGGCTCTTGACAGGAGTTGGGGATTCT  
 AGCTCAGCCCCACTGCTTGTGACTCAATCAGAAGGAACTGACCTGAGTAGAAGTCCAGAACCCCTCAGA  
 ACCACTTGCTGCTTTCCAGGAAGGCCACAGTGCCCGTCTCTCCATCGTGGGTGGCCAGAACAGGAAG  
 TCATCAGATTCACCGACTCCCAGGACTCCTCCTCCAGACTTGCAGTAGGCAGTAGAAACAGTTGCTCT  
 TCTCCACTGAGAGAAGTGTGAGAAAACTAATGAAAAGTATAGAACAAGTGCAGTGAATACTTTTACCA  
 AATATATATCTCCAGATGCTGCTAAGCCAATACCAATTACAGAAGCCATGAGAAACGACATCATCGAAA  
 GATTTGTGGAGAAGATGGACAGGTGGATCCCAACTGTTTCGTTCTGGCACAGGCTGTAGTCTTTAGTGCA  
 ATGGAGCAAGAGCACTTTAGTGAGTTCTGCGAAGTACCATTCTGTAATACCAGATTGAAGTGTGCA  
 CCAGTGGGACTGTTTACCTGGCTGATATCCTCTCTGTGAGTCAGCCCTTTTTATTTTTCTGAGTACAT  
 GGAAAAAGAAGATGCAGTGAATATCTTACAATTCTGGTTAGCAGCGGATAATTTCCAGTCTCAGCTTGT  
 GCCAAAAAGGGCCAGTATGATGGACAGGAGGCCAGAATGATGCCATGATTTTATATGACAAGTACTTTT  
 CCCTCCAAGCCACACACCCCTTGGATTTGATGATGTTGTACGATTAGAAATTGAATCTAATATCTGCAG  
 GGAAGGTGGACCCTTCTAATTGTTTCAACTCCATTACGTCAGGCCTGGACAACCATGGAGAAGGTC  
 TTTTTGCCTGGTTTTCTGTCCAGCAATCTTTATTACAAATATTTGAATGATCTCATCCATTCAGTTCGAG  
 GAGATGAATTTCTGGAGGGAATGTTCCCTGGCTGCTCAGGCTCTGTCTGCCTCCTGAGGAGTCTCA  
 CTCAGGTGGTCCGATGGCTCCACTGCTCAGTCTAGTGTGAAAAAGCCAGTATTTAAATTTGAAAAAT  
 TTTGATGAAGCAATAATTGTGGATGCTGCAAGTCTGGACCCAGAATCTTTATATCAACGGACATATGCAG  
 GGAAGATGTCCTTTGGGAGATTAAGTATTTGGGCAGTTCATCCGAGAGTCTGAGCCTGAACCTGATGT  
 GAAGAAATCAAAAGGATTCATGTTCTCACAAGCTATGAAGAAGTGGGTGCAAGGAAATACTGACGAGGCC  
 CAAGAAGAGCTAGCTTGGGAAGATTGCAAAAATGATAGTGAAGTATGTTATGCAGCAGGCACACCATGATC  
 AACCACTAGAGAAGTCTACAAAGCT**ATGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM\_019921
- Insert Size:** 1989 bp
- 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).
- 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\\_019921.3](#), [NP\\_064305.2](#)

**RefSeq Size:** 3879 bp

**RefSeq ORF:** 1989 bp

**Locus ID:** 56697

**UniProt ID:** [O88845](#)

**Cytogenetics:** 11 B2

**Gene Summary:** This gene encodes a member of A-kinase anchoring proteins (AKAPs), a family of functionally related proteins that target protein kinase A 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. It has been reported that this protein is important for maintaining heart rate and myocardial contractility through its targeting of protein kinase A. In mouse, defects of this gene lead to cardiac arrhythmias and premature death. In humans, polymorphisms in this gene may be associated with increased risk of arrhythmias and sudden cardiac death. [provided by RefSeq, May 2013]