

Product datasheet for MC218334

Akap10 (BC054105) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Akap10 (BC054105) Mouse Untagged Clone
 Tag: Tag Free
 Symbol: Akap10
 Synonyms: 1500031L16Rik; B130049N18Rik; D-AKAP-2; D-AKAP2; PRKA10
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >BC054105
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGAAAAGTATAGAACAAGATGCAGTGAATACTTTTACCAAATATATATCTCCAGATGCTGCTAAGCCAA
 TACCAATTACAGAAGCCATGAGAAACGACATCATCGCAAAGATTTGTGGAGAAGATGGACAGGTGGATCC
 CAACTGTTTCGTTCTGGCACAGGCTGTAGTCTTTAGTGAATGGAGCAAGAGCACTTTAGTGAGTTTCTG
 CGAAGTACCATTCTGTAAATACCAGATTGAAGTGTGACCAAGTGGGACTGTTTACCTGGCTGATATCC
 TCTTCTGTGAGTCAGCCCTCTTTTATTTTCTGAGTACATGAAAAAGAAGATGCAGTGAATGTCTTACA
 ATTCTGGTTAGCAGCGGATAATTTCCAGTCTCAGCTTGCTGCCAAAAAGGGCCAGTATGATGGACAGGAG
 GCCCAGAATGATGCCATGATTTTATATGACAAGTACTTTTCCCTCCAAGCCACACACCCCTTGGATTTG
 ATGATGTTGTACGATTAGAAATGAATCTAATATCTGCAGGGAAGGTGGACCACTTCTAATTTGTTTAC
 AACTCCATTACGTCAGGCCTGGACAACCATGGAGAAGGTCTTTTGCCTGGTTTTCTGTCCAGCAATCTT
 TATTACAAATATTTGAATGATCTCATCCATTGAGTTCGAGGAGATGAATTTCTGGAGGGAATGTTTCCC
 TGGCTGCTCAGGCTCTGTCTGCCTTCTGAGGAGTCTCACTCAGTGGTTCGATGGCTCCACTGCTGCA
 GTCTAGTGTAAAAAGCCAGTATTAATACTGAAAAATTTTATGATGAAGCAATAAATGTGGATGCTGCA
 AGTCTGGACCCAGAATCTTTATATCAACGGACATATGCAGGGAAGATGTCCTTTGGGAGAGTTAGTGATT
 TGGGGCAGTTCATCCGAGAGTCTGAGCCTGAACCTGATGTGAAGAAATCAAAGGATTTATGTTCTCACA
 AGCTATGAAGAAGTGGGTGCAAGGAAATACTGACGAGGCCAAGAAGAGCTAGCTTGAAGATTGCAAAA
 ATGATAGTGAGTGATGTTATGCAGCCGGCACACCATGATCAACCACTAGAGAAGTCTACAAAGCTATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: BC054105



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Insert Size:	1119 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:	<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>BC054105</u> , <u>AAH54105</u>
RefSeq Size:	2836 bp
RefSeq ORF:	1118 bp
Locus ID:	56697
Cytogenetics:	11 B2
Gene Summary:	<p>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]</p>