

Product datasheet for SC110079

AKAP12 (NM_144497) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AKAP12 (NM_144497) Human Untagged Clone
Tag:	Tag Free
Symbol:	AKAP12
Synonyms:	AKAP250; SSeCKS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110079 sequence for NM_144497 edited (data generated by NextGen Sequencing)

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ATGCTGGGGACCATCACCATCACAGTTGGACAGAGAGACTCTGAAGATGTGAGCAAAAGA
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Clone variation with respect to NM_144497.2
 4200 c=>g

**5' Read Nucleotide
 Sequence:**

>OriGene 5' read for NM_144497 unedited
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 CAGAGAGACTCTGAAGATGTGAGCAAAAGAGACTCCGATAAAGAGATGGCTACTAAGTCA
 GCGGTTGTTACGACATCACAGATGATGGGCAGGAGGAGACCCCGAAATAATCGAACAG
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**3' Read Nucleotide
 Sequence:**

>OriGene 3' read for NM_144497 unedited
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 CAAATGAATGTGTGCAACATTGTTCTTAAAAGAAATGGCACAATATGGCACAACACAA
 TCCAGTATCTATCAAAATACCATTTGTAAGAAGCTGACTTATTTTCATGCCATGTGTGAA
 TGCAGTCCAGCATATAAGAGTAGAATCAAAAACCTTACAACAATTTCTTTTTCATAACAT
 AAAAAACATATTCACTACTTTGCCTCAGGATTAAGCACACTTATCGGTCCAAACAACCAT
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 TCCACTGGGTTAGAAAAGAAAAATTTCCAATGACAATAGAACATTCTGTATGTTTTCAAAA
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 ATCTAGGAGGCTCTGTTTTTCGTGGGTTATATAACTGAAGCTTAAAGCTCCCAAGCCTG
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 CATATAAATATGTAAGGATGATACCTCCAGTTTCAGAAAACAAGTACTAGGTATTGCCCAA
 CTCATTTTCAGGTTAAAAATTTAGGACCCCTAATCAGA

Restriction Sites: NotI-NotI
ACCN: NM_144497
Insert Size: 6000 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:	NM_144497.1 , NP_653080.1
RefSeq Size:	6287 bp
RefSeq ORF:	5055 bp
Locus ID:	9590
UniProt ID:	Q02952
Cytogenetics:	6q25.1
Domains:	PkinA_anch
Protein Families:	Druggable Genome
Gene Summary:	<p>The A-kinase anchor proteins (AKAPs) are a group of structurally diverse proteins, which have the common function of binding to the regulatory subunit of protein kinase A (PKA) and confining the holoenzyme to discrete locations within the cell. This gene encodes a member of the AKAP family. The encoded protein is expressed in endothelial cells, cultured fibroblasts, and osteosarcoma cells. It associates with protein kinases A and C and phosphatase, and serves as a scaffold protein in signal transduction. This protein and RII PKA colocalize at the cell periphery. This protein is a cell growth-related protein. Antibodies to this protein can be produced by patients with myasthenia gravis. Alternative splicing of this gene results in two transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) has an alternate 5' segment, compared to variant 1, that results in a distinct 5' UTR and 5' coding region. The resulting isoform (2) has a distinct N-terminus and is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The extent of this transcript is supported by transcript alignments.</p>