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Product datasheet for SC126490

AKAP3 (NM_006422) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AKAP3 (NM_006422) Human Untagged Clone
Tag:	Tag Free
Symbol:	AKAP3
Synonyms:	AKAP 110; AKAP110; CT82; FSP95; HEL159; PRKA3; SOB1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

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>OriGene sequence for NM_006422 edited
AGGAAACAAGATCTTGAGCTGAGCAAGAACATCCCAGCATCTTCATTGACTTTAAAAGTA
TATTCTGGAGTCTTCCGTGGTTCACTATTCCAGTACTACAGAGATTCCTTATATTACATG
GCAGGAGGGGGGTAAACTGAGGGATAGTGAAGACAACAATAAATTAATCAAGAGCTTTCC
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ACATTTCCTTTGAGTACCCTGAAGATATTGGCAACCTCAGCCTTCCTCCATATCCTCCAG
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TGAACCTGTAATCGGCAACCCCACTGCTTTCCCCTCTTCTGGCAGTGGAGCCGGCCCTTA
TCCCCGCCCTTCTTTCTCACTTCCACATCTCCCCCTCTATATCCTCACAGAGCCCTAACA
TTATCTTCACACCACTCTCATCAAAGACATGTCATCTTGTGCTAGCCACTGGATTTTGCA
GATTTTCCTGTCCATGCAAGCAAGGACGTAAAATTAAAAAATTACAATTAAAGGGCAAAA
AAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006422 unedited
AGTTCAGATTTGTATACGACTCATATAGGCGGCCGCATAACTTCGTATAGCATACATTAT
ACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTCGAGAGCGGAGGAAACA
AGATCTTGAGCTGAGCAAGAACATCCCAGCATCTTCATTGACTTTAAAAGTATATTCTGG
AGTCTTCCGTGGTTCACTATTCCAGTACTACAGAGATTCCTTATATTACATGGCAGGAGG
GGGGTAAACTGAGGGATAGTGAAGACAACAATAAATTAATCAAGAGCTTTCCTCATATCT
CAGAACCTATCCTCTGTAAGAATGTCAGAAAAGGTTGACTGGTTACAAAGCCAAAATGGA
GTATGCAAAGTTGATGTCTATTCTCCTGGAGACAACCAAGCCCAGGACTGGAAAATGGAC
ACCTCCACGGATCCTGTCAGAGTGCTCAGCTGGCTCCGCAGAGACCTGGAGAAGAGTACA
GCAGAGTTCCAAGATGTTCGGTTCANACCCGGAGAATCATTTGGTGGGGAAACGTCCAAC
TCAGGAGACCCACACAAAGGTTTCTCTGTAGACTATTACAACACCACCACCAAGGGCACT
CCAGAAAGATTGCATTTTGAGATGACTCACANAGAGATTCCTTGCCAGGGCCCCAGGGCC
CAACTTGGCAACGAGAGTTCAGTAGATGAAGTTTCCTTCTATGCTAACCGCCTCACGAAT
CTAGTCATAGCCATGGCCCGCANAGAGATCAATGAGAAGATCGATGGCTCTGAAAACAAA
TGTGTCTATCAGTCATTGTACATGGGGAATGAACCCACACCCACCAAAAGCCTCATTAGA
TGCATCANAGCTTGGGAATGAAACCGTCTCTGCCTGTTTCAAGGATGCTGTCCCAAACAG
GGCTCCTGGCTCTGGAAACGAATCTAAGATCATAACAAA

Restriction Sites: NotI-NotI

ACCN: NM_006422

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_006422.2, NP_006413.2
RefSeq Size:	3027 bp
RefSeq ORF:	2562 bp
Locus ID:	10566
UniProt ID:	O75969
Cytogenetics:	12p13.32
Protein Families:	Druggable Genome
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 reported to participate in protein-protein interactions with the R-subunit of the protein kinase A as well as sperm-associated proteins. This protein is expressed in spermatozoa and localized to the acrosomal region of the sperm head as well as the length of the principal piece. It may function as a regulator of motility, capacitation, and the acrosome reaction. [provided by RefSeq, May 2013] Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein.