

Product datasheet for **RC239686**

AKAP3 (NM_001278309) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AKAP3 (NM_001278309) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AKAP3
Synonyms:	AKAP 110; AKAP110; CT82; FSP95; HEL159; PRKA3; SOB1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide
Sequence:**

>RC239686 representing NM_001278309
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCAGAAAAGTTGACTGGTTACAAAGCCAAAATGGAGTATGCAAAGTTGATGTCTATTCTCCTGGAG
 ACAACCAAGCCCAGGACTGGAAAATGGACACCTCCACGGATCCTGTCAGAGTGCTCAGCTGGCTCCGCAG
 AGACCTGGAGAAGAGTACAGCAGAGTTCCAAGATGTTTCGGTTCAAACCCGGAGAATCATTGGTGGGAA
 ACGTCCAACCTCAGGAGACCCACACAAAGGTTTCTCTGTAGACTATTACAACACCACCACCAAGGGCACTC
 CAGAAAGATTGCATTTTGGAGTACTCACAAGAGATTCTTGCCAGGGCCCCAGGGCCAACTTGGCAA
 CGGGAGTTCAGTAGATGAAGTTTCTTCTATGCTAACCCTCACGAATCTAGTCATAGCCATGGCCCGC
 AAAGAGATCAATGAGAAGATCGATGGCTCTGAAAACAAATGTGTCTATCAGTCATTGTACATGGGAATG
 AACCCACACCCACAAAAGCCTCAGTAAGATAGCATCAGAGCTTGTGAATGAGACCGTCTCTGCATGTT
 CAGGAATGCTGCCCGAGACAAGGCTCCTGGCTCTGGAGACAGAGTCTCGGATCATCACAAGTCCCCCA
 AATTTGAAATACAAGTCCACTTTGAAGTCAAGGAGAGCACCAAAGAAAGACAGGGTCCAGATGACAAGC
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 TGGAAAGTTCTTTCTCGGGAGAGAAAGAGTTTCGAGGGCAGGAAAGGCCTGATGACTTACGGCTTCT
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 TGAAGATCCAAGTGAAAGACACAACCATGGCCACCATCTACTGAAGAAGTTCTGCTCAAGCATGCAAA
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 GACACACAGTTTGTCTCGGCTGTGAAAAGAAGTGTCTTCTCATGGAAGCCAAAAGGCCACAGATATCA
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 AACTTTGCCATGAAATCTGAAACTAAATGAGAGAAAAAATGATTCTGAACCCAAATCAGAGGAGGAGA
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 GACATTTCTTTGAGTACCCTGAAGATATTGGCAACCTCAGCCTTCTCCATATCTCCAGAAAACCTG
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 TCACCTGGCCAGGGAGGAAGAAGGATGCACGGAGCTTCGTTGAAGCTGCTGGCACCACCAACTTCTCT
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 AAGCAACTCCAAGCCGTCTTCAATGGTGTAGTGCCTCTGAGCTCAATGTCCCTATTTTGTATTTTGTCTG
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 GGGCGAGGTTCTGCAGTCGGTGTGCGCTATGAGAAGGAGCGCCAGCTGAATGAGCGGTGGGAAATGTC
 ACACCGCTGCAGCTGCTGGACTGGCTGATGGTGAACCTG

ACGCGTACGCGGCCGCTCGAGCAGAAAATCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239686 representing NM_001278309
Red=Cloning site Green=Tags(s)

MSEKVDWLSQNGVCKVDVYSPGDNQAQDWKMDTSTDPVRVLSWLRDLEKSTAEFQDVRFKPGESFGGE
TSNSGDPHKGFSVDYYNTTKGTPERLHFEMTHKEIPCQGPRAQLGNGSSVDEVSYFANRLTNLVIAMAR
KEINEKIDGSENKCVYQSLYMGNEPTPTKSLSKIASLVNETVSACSRNAAPDKAPGSGDRVSGSSQSPP
NLKYKSTLKIKESTKERQGPDDKPPSKKSFFYKEVFESRNGDYAREGGRRFFPRERKRFRGQERPDFTAS
VSEGIMTYANSVSDMMVSIMKTLKIQVKDTTIIATILLKKVLLKHAKEVSDLIDSFLRNLHSTGTLMT
DTQFVSAVKRTVFSHGSQKATDIMDAMLRKLYNVMAKKVPEHVRKAQDKAESYSLISMKMGDPKNRNV
NFAMKSETKLREKMYSEPKSEETCAKTLGEHIIKEGLTLWHKSQQKECKSLGFQHAAFEAPNTQRKPAS
DISFEYPEDIGNLSLPPYPPEKPFENFMYDSDSWAKDLIVSALLLIQYHLAQGGRRDARSFVEAAGTTNFP
ANEPPVAPDESCLKSAPIVGDQEAQEKDLRSVFFNFIRNLLSETIFKRDQSPEPKVPEQPVKEDRKLCE
RPLASSPPRLYEDDETPGALSGLTKMAVSQIDGHMSGQMVEHLMNSVMKLCVIIAKSCDASLAELGDDKS
GDASRLTSAFPDSL YECLPAKGTGSAEAVLQNA YQAIHNEMRGTSGQPPEGCAAPTIVIVSNHNL TDTVQN
KQLQAVLQWVAASELNPILYFAGDDEGIQEKLQLSAAAVDKGCSVGEVLQSVLRYEKERQLNEAVGNV
TPLQLLDWLMVNL

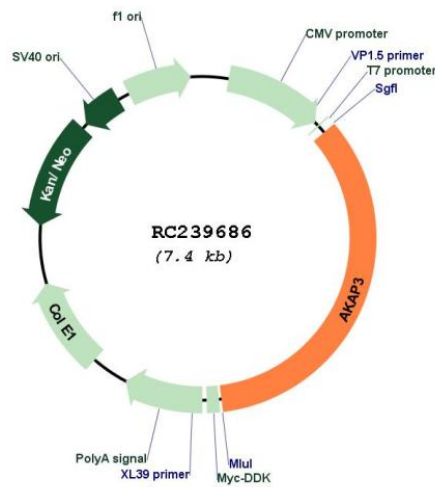
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001278309
ORF Size:	2559 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001278309.1 , NP_001265238.1
RefSeq Size:	3345 bp
RefSeq ORF:	2562 bp
Locus ID:	10566
UniProt ID:	O75969
Cytogenetics:	12p13.32
Protein Families:	Druggable Genome
MW:	95.2 kDa
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]