

Product datasheet for **RC235013**

AKAP1 (NM_001242903) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AKAP1 (NM_001242903) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AKAP1
Synonyms:	AKAP; AKAP84; AKAP121; AKAP149; D-AKAP1; PPP1R43; PRKA1; SAKAP84; TDRD17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC235013 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

RCATGGCAATCCAGTTCGGTTCGCTCTTCCCCTTGGCATTGCCTGGGATGCTGGCGCTCCTCGGCTGGT
 GTGGTTTTTCTCTCGTAAAAAGGCCATGTCAGCAGCCATGATGAGCAGCAGGTGGAGGCTGGTGCCTGTG
 CAGCTGAGGGCTGACCCTGCCATCAAGGAACCTCTCCCGTGGAAGACGTCTGTCCCAAAGTAGTGTCCA
 CACCCCCAGTGTACAGAGCCTCCAGAAAAGGAAGTGTCCACCGTGAGCAAGCTGCCTGCAGAGCCCC
 AGCATTGCTCCAGACACCCACCTTGCCGAAGATCAGAGTCTCGGGCATTCTTCTAACACCACAGAC
 ATGAGATTGCGACCAGGAACACGCAGAGATGACAGTACAAAGCTGGAGCTAGCCCTGACAGGTGGTGAAG
 CCAAATCGATTCTCTAGAGTCCCCCTTTCATCCCCAAAGGGTGTACTATTCTCCAGCAAATCAGCTGA
 GGTGTGAAGCAAGATTCCTTTCAGCAGGGTCCAAGGAAGGTCCAGCCAGGCTACCCCGTAGTCCCC
 GCAGAGAAGCGTAGCTCTGGGGAGAGGGCAAGAGAGACAGGTGGGGCCGAAGGGACTGGTGTGCCGTGT
 TGGGGGAAAAGGTGCTTGAAGAAGCTCTGTTGCTCGGGAGCATGCTTGGAAATGGAGAACAGCAAGGG
 CCCCAGCTGGCCTCTTTAGAGGGGGAAGAAGATAAGGGGAAGAGCAGCTCATCCAGGTGGTGGGGCCA
 GTGCAGGAGGAAGAGTATGTAGCAGAGAAGTTGCCAAGTAGGTTTCATCGAGTCGGCTCACACAGAGCTGG
 CAAAGGACGATGCGGGCCAGCACCCCCAGTCGCAGACGCCAAAGCCAGGATAGAGGTGTGCGAGGGAGA
 ACTGGGCAATGAGGAGAGCTTGGATAGAAATGAGGAGGGCTTGGATAGAAATGAGGAGGGCTTGGATAGA
 AATGAGGAGAGCTTGGATAGAAATGAGGAGGGCTTGGATAGAAATGAGGAGATTAAGCGGGCTGCCTTCC
 AGATAATCTCCAAGTATCTCAGAAGCAACCGAACAGGTGCTGGCCACCACGGTTGGCAAGGTTGCAGG
 TCGTGTGTGTCAGGCCAGTCAGCTCCAAGGGCAGAAGGAAGAGAGCTGTGTCCAGTTCACCAGAAAAT
 GTCTTGGGCCAGACACTGCGGAGCCTGCCACAGCAGAGGCAGCTGTTGCCCGCCGGATGCTGGCCTCC
 CCTTGGCAGGCCTACCAGCAGAGGGCTCACCACCACAAAGACCTACGTGAGCTGCCTGAAGAGCCTTCT
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 CTGACCACCCCCAGTGAAGAGTTGCCGACCGGGCAGGCATCCTGGTGAAGATGCCACCTGTGTACCT
 GCATGTCAGACAGCAGCCAAAGTGTCCCTTGGTGGCTTCTCCAGGACTGCTCAGATTCTTTCAGCAC
 TTCAGGGCTTGAAGACTTGTGCACAGAGACCAGCTCGAGCCCCAGGGACAAGGCCATCACCCGCCACTG
 CCAGAAAGTACTGTGCCCTTTCAGCAATGGGGTGTGAAGGGGAGTTGTCAGACTTGGGGCTGAGGATG
 GATGGACCATGGATGCGGAAGCAGATCATTGAGGAGTTCTGACAGGAACAGCATGGATTCCGTGGATAG
 CTGTTGACAGTCTCAAGAAGACTGAGAGCTTCCAAATGCCAGGCAGGCTCAACCCTAAGAAGGTGCGAC
 CTCATCATCTGGGAGATCGAGGTGCCAAAGCACTTAGTCGGTCCGCTAATTGGCAAGCAGGGGCGCTATG
 TGAGTTTTCTGAAGCAAACATCTGGTGCCAAGATCTACATTTCAACCCTGCCTTACACCCAGAGCGTCCA
 GATCTGCCACATAGAAGGCTCTCAACATCATGTAGACAAAGCGCTGAACCTGATTGGGAAGAAGTTCAA
 GAGCTGAACCTCACCAATATCTACGCTCCCCATTGCCTTCACTGGCACTGCCTTCTCTGCCGATGACAT
 CCTGGCTCATGCTGCCTGATGGCATCACCGTGGAGGTATTGTTGGTCAACCAGGTCAATGCCGGCACCT
 GTTCTGTCAGCAGCACACACCCTACCTTCCACGCGCTGCGCAGCCTCGACCAGCAGATGTACCTCTGT
 TACTCTCAGCCTGGAATCCCCACCTTGCCACCCCAGTGGAAATAACGGTCATCTGTGCCGCCCTGGTG
 CGGACGGGGCCTGGTGGCGAGCCCAAGTGGTTGCCTCCTACGAGGAGACCAACGAAGTGGAGATTGATA
 CGTGCCTACGGCGGATATAAGAGGGTGAAGTAGACGTGCTCCGGCAAATCAGGTCTGACTTTGTCAACC
 CTGCCGTTTTCAGGGAGCAGAAGTCTTCTGGACAGTGTGATGCCCTGTGAGCAGATGACCAGTTTTTAC
 CGGAAGCAGATGCCGCCATGAGCGAGATGACGGGAATACAGCACTGCTTGTCTCAGGTGACAAGTTACAG
 TCCAAGTGGTCTTCTCTGATTGAGCTGTGGAGTGTGGTGGAGATGAAGTGGTGTGATAAACCAGTCC
 CTGGTGGAGCGAGGCCTTGCCAGTGGGTAGACAGCTACTACACAAGCCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235013 protein sequence
 Red=Cloning site Green=Tags(s)

XWQSSSVRSPWHCLGCLRSSAGGGFSLVKKAMSAAMSSRWRLVLC*GLTLPNRNLSPWKTSPVK*CP
 HPPVSQLQKRNCP*ASCLQSPQHCSRHTLAEDQSPRAFFLTPQT*DCDQEAEMTVQSW*P*QVVK
 PNRFL*SAPFHPQRYVYSPANQLRCVSKIPPSAGCQGRSSQATP*SPQRSVALGRQERQVGPGLVMP
 WGRKCLKKLCCLGSMWNWRTARAPAWPL*RGKKIRGRAAHPRWWGQCRKSM*QRSCQVGSRRSLTQSW
 QRTMRRQHPQSQTPKPRIEVSRENWAMRRAWIEMRRAWIEMRRAWIEMRRAWIEMRRAWIEMRRLSGLPS
 R*SPK*SQKQPNRCWPPRLARLQVVCVPRVSSKGRKRAVSQFTRKLSWAQTLRSLPQQRQLLPRMLAS
 PCQAYQQRRAHHHRPT*AA*RAFCPAPRTVSQISLHTTSPWPPAWH*PPVKSCRTGQASWWMPPVSP
 ACQTAAYVSLWLLQDTAQILSALQGLKTLAQRPARAPGTRPSRHCQKVLCP SAMGC*RGSCQTWGLRM
 DGPWMRKQIIQEVLGTAWIPWIAVAVSRRLRASKMPRQAPTLLRSTSSSGRSRCQST*SVG*LASRGAM
 *VF*SKHLVPRSTFQPCLTPRASRSAT*KALNIM*TKR*T*LGRSSKS*TSPISTLPHCLHWHCLL*CR*H
 PGSCCLMASPWRSLWSTRSMPGTCSCSSTHTLPSTRCAASTSRCTSVTLSEPPCPPQWK*RSSVPLV
 RTGPGGEPKWLPPTRRP*TKWRFDTCTTADIRG*K*TCSGKSGLTLSPCRFREQKSFWTV*CPCQTMTSFH
 RKQMPP*AR*RGIQHCLLR*QVTVQLVFL*FSCGVWLEMKWC**TGPWWSEALPSG*TATTQA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

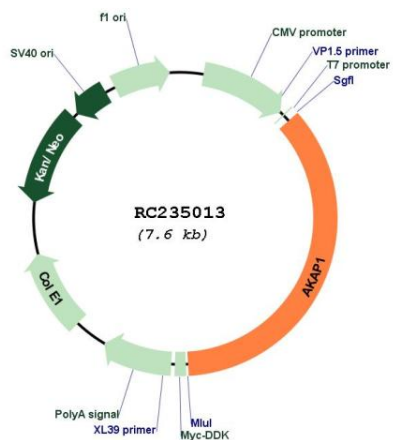
Cloning Scheme:



ACCN: NM_001242903

ORF Size:	2709 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_001242903.1 , NP_001229832.1
RefSeq Size:	4321 bp
RefSeq ORF:	2712 bp
Locus ID:	8165
UniProt ID:	Q92667
Cytogenetics:	17q22
Protein Families:	Druggable Genome, Transmembrane
MW:	97.4 kDa
Gene Summary:	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 binds to type I and type II regulatory subunits of PKA and anchors them to the mitochondrion. This protein is speculated to be involved in the cAMP-dependent signal transduction pathway and in directing RNA to a specific cellular compartment. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC235013