

Product datasheet for **MC222137**

Akap1 (NM_009648) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Akap1 (NM_009648) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Akap1
Synonyms:	Akap; AKAP84; AKAP121; C76494; C81186; DAKAP1; S-AKAP84
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222137 representing NM_009648
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAATCCAGTTGCGTTCGCTTCCCTTGGCGTTGCCCGGAATGCTGGCCCTCCTTGCTGGTGGT
 GGTTTTTCTCTCGTAAAAAGATCGGCTCAGCAGCAGTGATAAGCAGGTGGAGACTGAAGTTGGCCC
 TGCCATCAAGGACCGACGGCTCAGTGAAGAGCCGTGCTCGGAGTCTGTCTGTGGCCCCACTGTCACA
 CAGCCTCTGGAAGGGAAGAGCAGCGCTGTGTGGACAAGCCTTCTACAGAGCCCCGGCCTTGCCGAGGA
 CTCGCCAGGTTGACGAAGATCAGAGTCTCAGGCAACCTCCCCAGGTTGCAGACACGAGGTGCGACGC
 AGGACCGTGCAGAGATGAGATCGCCAAAGTGGAACTCTCCCTGATGGGGGACAAAGCCAAATCTATTCT
 CTTGGATGTCCGCTTCTCCAAAGGATGCGTCTTCCCCTATGAAGCAGTGGAAGGTGTAAGCAGGAGT
 CCGCACTGGGCAAGACTCCTGGAAGAGGCTGGCAAGCCCGTATGCGGCCCTGGAGAGAAAGCGAGAGA
 GACAGGTGGGACAGAGGGGACTGGAGATGCTGTGTTGGGGGAAAATGTATCTGAGGAAGGCCATTGTCC
 CAGGAGTGTCTCAGAAGTGGAGAAGAGTGAGTTCCAATCCTGGCCCCGGGGGAGGTGAGGGAGAAG
 AGGTGAGCCATGGCCCCCACAGGTAGCTGAACTTTTAAAGAAGGAAGAATATATTGTTGGGAAGTTGCC
 GAGTAGCTTTGTGGAGCCAGTTCCTCAGAGCCGGTAAAGGACGAGGATGCGTTGGAACCCAGGTCAA
 GGTAGCAGCAATACTTCGGATAGAGACCTGGCTGGAGAGCTGGACAAAGACGAGACCGTGCCTGAAAATG
 ACCAGATTAAGCAGGCTGCCTTCCAGCTCATCTCCAGGTGATCTTGAAGCAACTGAAGAGTTTCGGGC
 CACCACAGTGGCAAGACTGTGGACAAGTGCACCAACCTCGGCCACTCAGCCTAAGGGGAAGGAGGAG
 AGCTGTGTTCCAGCCAGCCAGGAACTAGCTTGGGACAAGACACCTCAGATCCTGCTTCCACCAGAACAG
 GTGCCACTGCCAGCCCTCAGCAGAAGCTTGCACCAAGACCTATGTAAGCTGTCTCAGCAGCCCTCT
 GTCAGGCCCCACCAAGGACCAGAAGCCAAAGAAGCTCTGCACATCACATCTCCCTGGCTCCCTGCCACCG
 CCAGTCAACCCAGAGGCACTCTGGAGGGGCAAGTAACCCGAGAGGTGATGACAACCTTGTGCGCT
 GTATGGCCAACAACAGCCAGAGTGTCTTTAGTTAGCTCCTTGGGGCAGTGCTCAGATCTGTCAGTAC
 TTCGGGGCTTGAAGACTTGTGCACAGAGACCATCTCAAGCTCCGGAGACAAAGCTATGACCCCACTG
 CCAGTCACTACTCAGCCCTTCCAGCAACGGGGTGTGAAGGAGGAGCTGTCAGACTTAGGGACCGAGGATG
 GATGGACCATGGATACAGAAGCAGATCACTCAGGAGGTTCTGACGGGAACAGTATGGATTAGTGGATAG
 CTGTTGCGGGCTTACCAAGCCGATAGCCCCAGAGTGTCCAGGCAGGCTCAACCCTAAGAAGGTTGAC
 CTTATCATCTGGGAGATCGAGGTGCCAAAGCACTTAGTTGGTCGACTGATTGGCAAGCAGGGACGGTACG
 TGAGTTTTCTGAAGCAGACATCTGGTGCCAAGATCTACATCTCCACCCTGCCTTACACACAGAACATCCA
 GATCTGCCACATAGAAGGCTCTCAGCACCATGTAGACAAAGCTCTGAACTTGATTGGGAAGAAGTTAAG
 GAACTGAACCTCACCAATATCTATGCGCCCACTGCCTTCGCTGGCACTGCCTTCTTGCCGATGACGT
 CTTGGCTCATGCTGCCTGATGGTATCACTGTGGAAGTCACTGTTGCAACCAGGTCAATGCTGGGCACCT
 ATTTGTCCAGCAGCACACACCCCACTTCCATGCACTGCGCAGTCTGGACCAGCAGATGTACCTCTGT
 TACTCTCAGCTGGAATCCCCACCTTGGCCACCCAGTGGAAATCACGGTTATCTGCGCTGCCCTGGTG
 CGGACGGGGCTGGTGGCAGCCCAAGTAGTGGCTTCCATGAGGAGACCAATGAGGTGGAGATTCGCTA
 CGTGGACTATGGTGGATATAAGAGAGTGAAGTGCAGTGTCTCCGCAAAATTAGGTCTGACTTTGTGACC
 CTGCCATTCCAAGGAGCAGAAGTCTTCTGGACAGTGTGGTTCCCTGTGACAGATGATGATATTTTCAC
 CGGAGGCAGACGAGCCATGAGTGAAGTACAGCAATACAGCACTGTTGGCCAGGTGACAAGCTACAG
 TGCGACTGGCCTTCTCTGATTAGCTATGGAGTGTGGTTGGAGATGAAGTGGTGTGATAAACCGGTCG
 CTGGTGGAGCGAGGCCTTGCACAGTGGGTAGACAGCTACTATGCCAGCCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_009648
Insert Size: 2574 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_009648.2 , NP_033778.2
RefSeq Size:	3721 bp
RefSeq ORF:	2574 bp
Locus ID:	11640
UniProt ID:	O08715
Cytogenetics:	11 C
Gene Summary:	Differentially targeted protein that binds to type I and II regulatory subunits of protein kinase A. Anchors them to the cytoplasmic face of the mitochondrial outer membrane or allows them to reside in the endoplasmic reticulum. Does not contain the classic KDEL endoplasmic reticulum-targeting sequence. This explains how it is able to switch its localization, either being in the endoplasmic reticulum or in the mitochondria depending on which N-terminal part begins the isoform. The longest N-terminal part only present in isoform 2 and isoform 4 acts as a suppressor of mitochondrial targeting and as an activator of recessive endoplasmic reticulum targeting motif.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) and variant 2 encode the same protein.