OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC229055

Akap1 (NM_001042541) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Akap1 (NM_001042541) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Akap1
Synonyms:	Akap; AKAP84; AKAP121; C76494; C81186; DAKAP1; S-AKAP84
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

View online »

Fully Sequenced ORF:

>MC229055 representing NM_001042541
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAATCCAGTTGCGTTCGCTCTTCCCCTTGGCGTTGCCCGGAATGCTGGCCCTCCTTGGCTGGTGGT
GGTTTTTCTCTCGTAAAAAAGATCGGCTCAGCAGCAGTGATAAGCAGGTGGAGACACTGAAGGTTGGCCC
TGCCATCAAGGACCGACGGCTCAGTGAAGAGGCCTGTCCTGGAGTCCTGTCTGTGGCCCCCACTGTCACA
CAGCCTCCTGGAAGGGAAGAGCAGCGCTGTGTGGACAAGCCTTCTACAGAGCCCCTGGCCTTGCCGAGGA
CTCGCCAGGTTCGACGAAGATCAGAGTCCTCAGGCAACCTCCCCAGCGTTGCAGACACGAGGTCGCAGCC
AGGACCGTGCAGAGATGAGATCGCCAAAGTGGAACTCTCCCTGATGGGGGACAAAGCCAAATCTATTCCT
CTTGGATGTCCGCTTCTCCCAAAGGATGCGTCCTTCCCCTATGAAGCAGTGGAAAGGTGTAAGCAGGAGT
CCGCACTGGGCAAGACTCCTGGAAGAGGCTGGCCAAGCCCGTATGCGGCCTCTGGAGAGAAAGCGAGAGA
GACAGGTGGGACAGAGGGGACTGGAGATGCTGTGTTGGGGGAAAATGTATCTGAGGAAGGCCTATTGTCC
CAGGAGTGTGTCTCAGAAGTGGAGAAGAGTGAGTTTCCAATCCTGGCCCCCGGGGGAGGTGAGGGAGAAG
AGGTGAGCCATGGCCCCCCACAGGTAGCTGAACTTTTAAAGAAGGAAGAATATATTGTTGGGAAGTTGCC
GAGTAGCTTTGTGGAGCCAGTTCACTCAGAGCCGGTTAAGGACGAGGATGCGTTGGAACCCCAGGTCAAA
GGTAGCAGCAATACTTCGGATAGAGACCTGGCTGGAGAGCTGGACAAAGACGAGACCGTGCCTGAAAATG
ACCAGATTAAGCAGGCTGCCTTCCAGCTCATCTCCCAGGTGATCTTGGAAGCAACTGAAGAGTTTCGGGC
CACCACAGTGGGCAAGACTGTGGCACAAGTGCACCCAACCTCGGCCACTCAGCCTAAGGGGAAGGAGGAG
AGCTGTGTTCCAGCCAGCCAGGAAACTAGCTTGGGACAAGACACCTCAGATCCTGCTTCCACCAGAACAG
GTGCCACTGCCAGCCCTTCAGCAGAAGCTCTGCCACCAAAGACCTATGTAAGCTGTCTCAGCAGCCCTCT
GTCAGGCCCCACCAAGGACCAGAAGCCAAAGAACTCTGCACATCACATCTCCCTGGCTCCCTGCCCACCG
CCAGTCACCCCCCAGAGGCAGTCTCTGGAGGGGGCAAGTAACCCGAGAGGTGATGACAACTTTGTCGCCT
GTATGGCCAACAACAGCCAGAGTGTCCTTTCAGTTAGCTCCTTGGGGCAGTGCTCAGATCCTGTCAGTAC
TTCGGGGCTTGAAGACTCTTGCACAGAGACCATCTCAAGCTCCGGAGACAAAGCTATGACCCCACCACTG
CCAGTCAGTACTCAGCCCTTCAGCAACGGGGTGCTGAAGGAGGAGCTGTCAGACTTAGGGACCGAGGATG
GATGGACCATGGATACAGAAGCAGATCACTCAGGAGGTTCTGACGGGAACAGTATGGATTCAGTGGATAG
CTGTTGCGGGCTTACCAAGCCCGATAGCCCCCAGAGTGTCCAGGCAGGCTCCAACCCTAAGAAGGTTGAC
CTTATCATCTGGGAGATCGAGGTGCCAAAGCACTTAGTTGGTCGACTGATTGGCAAGCAGGGACGGTACG
TGAGTTTTCTGAAGCAGACATCTGGTGCCAAGATCTACATCTCCACCCTGCCTTACACACAGAACATCCA
GATCTGCCACATAGAAGGCTCTCAGCACCATGTAGACAAAGCTCTGAACTTGATTGGGAAGAAGTTTAAG
GAACTGAACCTCACCAATATCTATGCGCCACCACTGCCTTCGCTGGCACTGCCTTCCTTGCCGATGACGT
CTTGGCTCATGCTGCCTGATGGTATCACTGTGGAAGTCATCGTGGTCAACCAGGTCAATGCTGGGCACCT
ATTTGTCCAGCAGCACACACACCCCACCTTCCATGCACTGCGCAGTCTGGACCAGCAGATGTACCTCTGT
TACTCTCAGCCTGGAATCCCCACCTTGCCCACCCCAGTGGAAATCACGGTTATCTGCGCTGCCCCTGGTG
CGGACGGGGCCTGGTGGCGAGCCCAAGTAGTGGCTTCCTATGAGGAGACCAATGAGGTGGAGATTCGCTA
CGTGGACTATGGTGGATATAAGAGAGTGAAAGTCGACGTGCTCCGGCAAATTAGGTCTGACTTTGTGACC
CTGCCATTCCAAGGAGCAGAAGTCCTTCTGGACAGTGTGGTTCCTCTGTCAGATGATGATCATTTTTCAC
CGGAGGCAGACGCAGCCATGAGTGAGATGACAGGCAATACAGCACTGTTGGCCCAGGTGACAAGCTACAG
TGCGACTGGCCTTCCTCTGATTCAGCTATGGAGTGTGGTTGGAGATGAAGTGGTGTTGATAAACCGGTCG
CTGGTGGAGCGAGGCCTTGCACAGTGGGTAGACAGCTACTATGCCAGCCTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001042541

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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001042541.1, NP_001036006.1
RefSeq Size:	3758 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 (2) has an alternate 5' UTR exon, compared to variant 1. Variants 1 and 2 encode the same protein.