

Product datasheet for MR216222

Akap12 (NM_031185) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Akap12 (NM_031185) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Akap12
Synonyms: AI317366; Srcs5; SSeCKS; Tsga12
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR216222 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
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 TGGAGCTCAGTGGCCATGGGCCCGCAGCGGAAGCGTCGGGAGCAGCTGGAGATCCCGCTGACCGGACCC
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GAGAGAATCAAGGTACAGGGAAGTCCCCTGAAGAAGCTCTTCAGCAGTTCGGGCTTAAAGAAGCTCTCCG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR216222 protein sequence
Red=Cloning site Green=Tags(s)

MGAGSSTEQRSPEQPAESDTPSELELSGHGPAEASGAAGDPADADPATKLPQKNGQLSAVNGVAEQEDV
HVQEESQDQEQEEVTVEDVGRSESDVKEKDRAKEMAASSTVVEDITKDEQEETPEIEEQIPASESNVEE
MAQAAESQANDVGFKKVFKFVGFKFTVKKDKNEKSDTVQLLTVKKDEGEGAEASVAGGDHQPVEVTVGE
SASKESELKQSTEQEGLKQAQSSTEIPLQAESGGTEEEAAKDGEENREKEPTKPLESPTSPVSNETT
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STESTASGMQDEVRAVGEQRSEEPKRRVDTSVSWEALICVGSKKRARKASSSDDEGGPRTLGGDGHRA
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HPKPVL TADMPSERKALGSLEGSPSLPDQKADCIQVQSSDTPVTQTTEAVKKVEETVATSEMDES
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VMQADSQGAQQMLDKDESDLQVSPQDGTLSAVAQEGGLAVSDSSEGMSKASEMITTLAVESASVKESVEKL
PLQCKDEKEHAADGPQHQLAKAEADASGNLTKESPDTNGPKL TEEGDALKEEMNKAQTEEDDLQEPKGD
L TES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_031185

ORF Size: 5052 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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_031185.3](#), [NP_112462.1](#)

RefSeq Size: 6262 bp

RefSeq ORF: 5055 bp

Locus ID: 83397

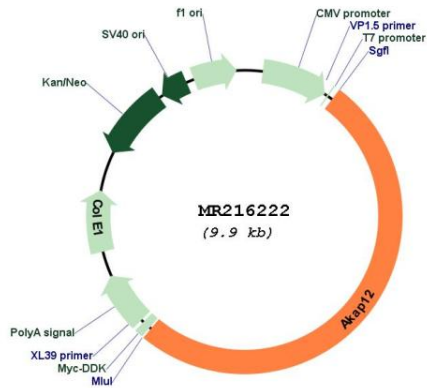
UniProt ID: Q9WTQ5

Cytogenetics: 10 A1

MW: 180.7 kDa

Gene Summary: Anchoring protein that mediates the subcellular compartmentation of protein kinase A (PKA) and protein kinase C (PKC).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216222