

Product datasheet for **MR221217**

Akap14 (NM_001033785) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Akap14 (NM_001033785) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Akap14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR221217 representing NM_001033785, **codon optimized**.
Due to the complexity of NM_001033785, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**

ATGAGTAAACAAAAAATTCCCAATCAGAAAGCAAAGATCGTTGAAAACACATCAACCGCCAAGACTA
 AAAAACCCGAAGCACCCGAACCCAAACATGTTACTGAGCCTAAGGACTCAAATCCGTGGAGGATCCCAA
 GATTCTGTGACCGACCAGAAGGAGAAGAAGACGGTAACACCATTGCGGAGCCCAAGGACAAGAAGTCC
 GAAACCGAACCCAAAGAGAAGAAGACTGTGACCATATCTGACCCGAAAGCCAAGAAGCCAGCGATCGAGA
 AGGACAAAACGAACGGTACATTCGTGACCGAGGTAAAAGACAAGAGGATCGTTACGGATACCAAGGAGAA
 TCGCATCGCTCCATCGACACAAAGGAAAAGGTGCCAGTAGTGGTGCCCGAAGTGAAGGAGAAGCGGGTG
 CAGCTGTTGGATCCAAAGGAGAAGGTCCGCGGTGCTGCCTACAACACCAATCGGTTCCGTGGCCCATGTCC
 CTCACGCACCACTGTGCGACACACTGAGCATGCAGCCCCGCTAAGCCTGTGGCCCCGGCTAAGCCCGT
 CGCCCCGTGGCACCTGCCAAACCCGTGCTCCAGTGCCACCCGCTAAGCCTGTGCTCCCTGTGGCCCCCT
 GCCAAACCCGTGCGACCTGCCGCCCTGTACATCAGTAGTCAGAGCCGTGCCAGCCGACCAAGTACTC
 CAGTGGCTCCAGTTGCTCCAGCTGTACCAGTGGTGCCAGCTGCCCTGTGCACCAGCCGACCCCGTCTG
 GCCCGCGTCCCGTCCGTCCTCCGAGCCGCTCCCGTCCCGTCCCGTCCCGTCCCGTCCCGTCCCGTCCCGT
 CTGCCCCGTGGCCCCCTGCGTCCCGTGGCTCCCGTCCCGTCCCGTCCCGTCCCGTCCCGTCCCGTCCCGT
 AGAAAATCCCGTCTCCGAGGTCAAGGGTAAGAAGGAGGTGCCCTCCCGTCCCGTCCCGTCCCGTCCCGT
 CAAAGCAAGCTCTTTTGGCCCGAAATTAAGTGAAGGAGTGGCAGTGAATTAAGCAAAAGGCTCAC
 GTCAAAGATGTCAAAGAGAAGAAAATTGTGCCTGAGGTTAAGGAGAAGAAGCCGGTCTGGTTAAGAAAA
 AGGACGGTGCATCTGAGGTGGCTCGACTGTGGTGGATGGGGTATGGCCGCCGAGTAGAGATGGTGGAA
 AGAAGCTCGAACCCAATAAAAAATTAAGTGGTTGACCCACGGCGAATTCCTCCTGAGAAAGGAAGG
 AAGCAGATCGAAAAGTTCGTGTCTACATGGGAATTCAGAACCGTGGGTGACTATGCAGATTTTATCG
 AGAAAAAAGACCTGATTCATAGCTATCATTATATATATCGAGTCAGGTGGTCCGCTCCTACTGCAGTGAG
 GCCTATGGCCCGAGTAAGCGCTAACCGCTGTTACAATTAAGTTAACAAGTCCAAGCCTGCAGATATG
 CCCGTCGACGTCTCTACATCTTCGAAAACAGTGAAGTGTGCAAGACCCGGTGAAGTTCAGGTTTCGCG
 AACAGTGGCTGCGCGACATAACCGAAACGAAGCACATTCTGCTCGAATCTATCCATTCAAAGTAGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221217 representing NM_001033785
 Red=Cloning site Green=Tags(s)

MSNKKKFPNQKAKIVENTSTAKTKKPEAPEPKHVTEPKDSKSVEDPKIPVTDQKEKKTVTTIAEPKDKKS
 ETEPKKKTVTISDPKAKKPAIEKDKRTVTFVTEVKDKRIVTDTKENRIASIDTKEKVPVVVPEVKEKRV
 QLLDPKEKVAVLPTTPIGSVAHVPHAPPVAHTEHAAPAKPVAPAKPVAPVAPAKPVAPVAPAKPVVPAV
 AKPVAPAAPVTSVVRVPAAPVTPVAPVAPVPAAPVAPVAPVPAAPVAPVAPVAPVAPVAPVAPVAPV
 LPVAPVAPVAPVAPVAPVPEVKQKIPVSEVKGKKEVPLRVPPELKEIKASSFAPEIKVKKVGVSEIKQKAH
 VKDVKEKIVPEVKEKPPVVVKKKDGASEVARTVVDGVMMAAVEMVEARNPIKNIKWLTHGEFTPEKGR
 KQIEKFVSTWFEFQNRWVYADFIEKKDLIHSYHYIYRVRWSAPTAVRPMARVSANALFTIKFNKSKPADM
 PVDVSYIFENSELLQRPEIRFREQWLDRITETKHILLESIPFKVV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001033785

ORF Size: 1608 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.

RefSeq: [NM_001033785.1](#), [NM_001033785.2](#), [NP_001028957.1](#)

RefSeq Size: 1792 bp

RefSeq ORF: 1611 bp

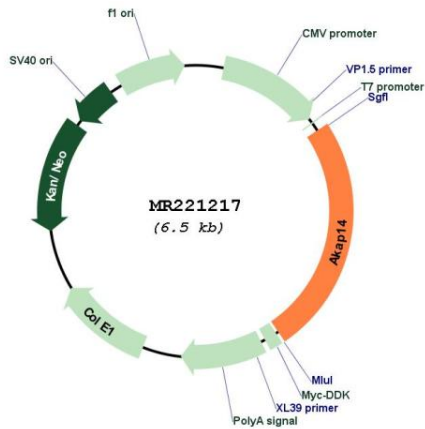
Locus ID: 434756

Cytogenetics: X A3.3

MW: 58.2 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 human ortholog of this gene has been characterized. It is reported to be enriched in airway cilia and to regulate ciliary beat frequency by anchoring the protein kinase A holoenzyme near substrates in the axoneme. [provided by RefSeq, May 2013]

Product images:


Circular map for MR221217