

Product datasheet for **MR219020**

Akap4 (NM_001042542) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Akap4 (NM_001042542) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Akap4
Synonyms:	AKAP-4; AKAP82; Fsc1; mAKAP82; p82; PRKA4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR219020 representing NM_001042542
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGACGATATTGACTGTTACACAGCCCGAGAGCGTGTGCAAGGTAGATCTTTACAGTCCAAAAG
 GACAACAAGATCAGGACCGAAAAGTGATATGCTTTGTGGATGTGTCTACCTTGAATGTGGAAGATAAAGA
 TTCCAAGGGTGTCTGTTCCAGGTGAGAAGCGAGTTAAATCTGGAGACTCTGGAAGAAAAAGAGATT
 ATCGTAATCAAGGACACTGAAAAACAAGACCAGTCTAAGACGGAGGGATCTGTGTGCCTTTTCAAACAAG
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 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR219020 representing NM_001042542
 Red=Cloning site Green=Tags(s)

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MSDDIDWLHSRRGVCKVDLYSPKGQQDQDRKVICFVDVSTLNVEDKDKSKGAAGSRSEGELNLETLEEKEI
IVIKDTEKQDQSKTEGSVCLFKQAPSDPISVLNWLNDLQKYGALGFQHALSPSASSCKHKVGDLEGDYSK
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MAKYSNNGAALAELEEQAALVGSGSRCGRDAMMSQNYSETPGPEVIVNNQCSTTNLQKQLQAVLQWIAAS
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001042542

ORF Size: 2520 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_001042542.2](#), [NP_001036007.1](#)

RefSeq Size: 2856 bp

RefSeq ORF: 2523 bp

Locus ID: 11643

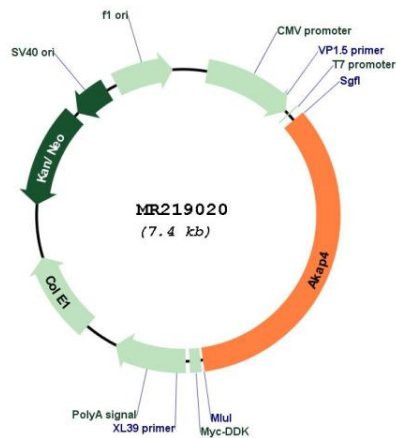
UniProt ID: [Q60662](#)

Cytogenetics: X 3.17 cM

MW: 93.3 kDa

Gene Summary: Major structural component of sperm fibrous sheath. Plays a role in sperm motility (PubMed:12167408).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219020