

Product datasheet for **MR216759**

Akap4 (NM_009651) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Akap4 (NM_009651) 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:

>MR216759 representing NM_009651
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTGCCTACTGTGGTACTACAACGATGTCTGACGATATTGACTGGTTACACAGCCGCAGAGGCGTGT
 GCAAGGTAGATCTTTACAGTCCAAAAGGACAACAAGATCAGGACCGAAAAGTGATATGCTTTGTGGATGT
 GTCTACCTTGAATGTGGAAGATAAAGATTCCAAGGGTGTCTGGTTCCAGGTGAGAAGGCGAGTTAAAT
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 AGGGATCTGTGTGCCTTTCAAACAAGCTCCCTCTGATCTATAAGTGTCTCAACTGGCTCCTCAATGA
 TCTCCAGAAGTATGCCTTGGGTTTCCAACATGCATTAAGCCCTCAGCCTCTAGCTGTAACATAAAGTG
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 TAACCAAAGTCCCTCAAATCCTGCAACCAAATCTCCTAGCAATCAGAGGTGAGTTGCCACTCCTGAGGGA
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ACGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR216759 representing NM_009651
 Red=Cloning site Green=Tags(s)

MIAYCGTTTMSDDIDWLHSRRGVCKVDLYSPKGGQQDRKVICFVDVSTLNVEDKDSKGAAGSRSEGLN
 LETLEEKEIIVIKDTEKQDQSKTEGSVCLFKQAPSDPISVLNWLNDLQKALGFQHALSPSASSCKHKV
 GDLEGDYSKIPSENCYSVYADQVNFYLNKGPQNLRLMAASKNTNNNQSPSNPATKSPSNQRSVATPEG
 ECSMDDL SFYVNR LSSLVIQMARKEIKDKLEGGSKCLHHSMYTSGDKGKTSPRSVAVSKIASEMAHEAVEL
 TSSEMRNGEDCRDGRKTFLYSEMCKNKCKGKQMQMCPKDSKEFADSISKGLMVYANQVADMMVSVMKT
 LKVHSCGKPIPACVVLKRVLLKHTKEIVSDLIDSCMKNLHNITGVLMTDSDFVSAVKRNLFNHGKQNAAD
 IMEAMLRKLVALLGEKKETKSQSLAYATLKAGTNDPKCKNQSLF SAMKAEMKGDCKCKSKADPCKSL
 TSAERVSEHILKESLTMWNNQKQGNQGVTKVCCTSKDEKREKISPTDSLAKDLIVSALMLIQYHLTQ
 QAKGKDPCEECPGSSMGYMSQSAQYEKCGGGQSSKLSMKHFETRAGPGPSTCMKENQLESQKMDMSNM
 VLSLIQKLLSESPFSCDELTESDNKRCCDPRSSKAAPMAKRPEEQCDNAELDFISGMKQMNRFIDQLV
 ESVMKLCLIMAKYSNNGAALAELEEQAALVSGSRCGRDAMMSQNYSETPGPEVI VNNQCSTTNLQKQLQ
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 LLDWLLANL

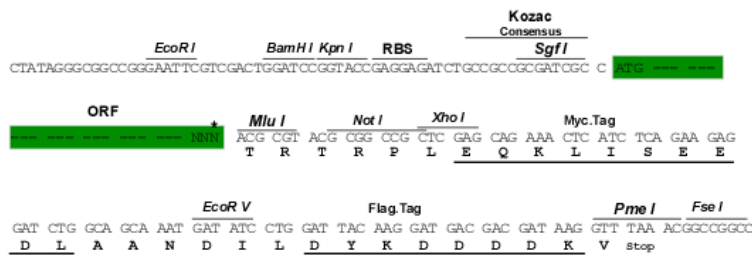
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9094_b09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

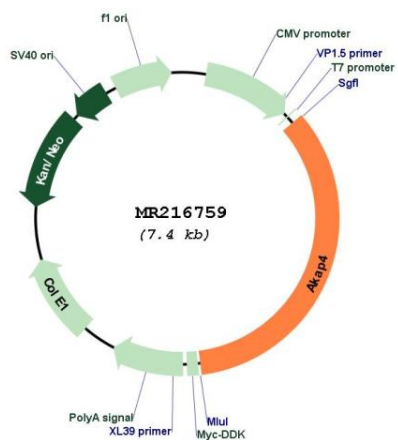
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_009651
ORF Size:	2547 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:	<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_009651.4 , NP_033781.2
RefSeq Size:	2855 bp
RefSeq ORF:	2550 bp
Locus ID:	11643
UniProt ID:	Q60662
Cytogenetics:	X 3.17 cM
MW:	93.8 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 MR216759