

Product datasheet for **MG216759**

Akap4 (NM_009651) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|-------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Akap4 (NM_009651) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Akap4 |
| Synonyms: | AKAP-4; AKAP82; Fsc1; mAKAP82; p82; PRKA4 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>MG216759 representing NM_009651
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTGCCTACTGTGGTACTACAACGATGTCTGACGATATTGACTGGTTACACAGCCGCAGAGGCGTGT
 GCAAGGTAGATCTTTACAGTCCAAAAGGACAACAAGATCAGGACCGAAAAGTGATATGCTTTGTGGATGT
 GTCTACCTTGAATGTGGAAGATAAAGATTCCAAGGGTGTCTGTTCCAGGTCAGAAGGCGAGTTAAAT
 CTGGAGACTCTGGAAGAAAAAGAGATTATCGTAATCAAGGACACTGAAAAACAAGACCAGTCTAAGACGG
 AGGGATCTGTGTGCCTTTCAAACAAGCTCCCTCTGATCTATAAGTGTCTCAACTGGCTCCTCAATGA
 TCTCCAGAAGTATGCCTTGGGTTTCCAACATGCATTAAGCCCTCAGCCTCTAGCTGTAACATAAAGTG
 GGAGACCTAGAGGGTACTATAGCAAAATACCATCTGAGAAGTGTACAGTGTGTACGCTGATCAAGTAA
 ACTTTGATTATTTGAACAAAGGACCTCAAACCTTCGCCTAGAAATGGCGGCATCCAAAAACACCAACAA
 TAACCAAAGTCCCTCAAATCCTGCAACCAAATCTCCTAGCAATCAGAGGTCAGTTGCCACTCCTGAGGGA
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 AGGAAATCAAGGACAAATTTGAAGGTGGAAGCAATGTCTCCATCATTCCATGTATACATCAGGAGATAA
 AGGAAAAACAGCCCCGGAGTGTCTGACGAAAATTTGCTTCGGAGATGGCCATGAAGCTGTTGAACTG
 ACCTCATCAGAAATGCGTGGCAATGGAGAGGATTGCAGGGATGGCCGAAAACCTTTTTGTATAGTGAAA
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 TCGAAAGTACACAGCTGTGGGAAGCCAATTCGGCTTGTGTGGTCTGAAGAGGGTACTATTGAAGCACA
 CCAAGGAAATTTGATCTGATCTGATTGATTCATGTATGAAAAACTTGCATAACATAACAGGAGCTTGAT
 GACAGACTCAGACTTCGTTTCTGCTGTCAAGAGGAATCTTTTCAATCATGGTAAACAAAATGCAGCGGAC
 ATCATGGAGGCCATGCTAAAGCGTCTGGTCAAGTCTCTTCTTGGTGAAGAAGGAGACTAAGTCTCAAA
 GTCTGGCCTATGCAACCTTAAAAGCTGGAATAATGATCCGAAATGCAAGAATCAGAGCCTTGAGTTCTC
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 ACAAGTGTGAGAGAGTCAAGCAGCATATCCTCAAAGAGAGCCTTACTATGTGGAACAACCAAGAAGCAAG
 GAAACCAAGGCAAAGTACTAACAAGTTTGTGCAACAGTAAAGATGAGAAGAGAGAAAAGATCAGTCC
 TTCCACAGATTCAGTGGCAAGGATCTAATTGTCTCTGCCCTTATGCTCATTCAATACCATCTGACCCAA
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 ATAAGCGTTGTTGTGATCCTAGATCAAGCAAAGCAGTCCCATGGCCAAGAGACCTGAAGAGCAATGCCA
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 GAATCCGTGATGAAACTCTGCCTGATCATGGCTAAGTACAGCAACAATGGAGCAGCCCTGGCTGAGCTGG
 AAGAACAAGCAGCCCTGGTAGGCAGTGGCTCCAGATGTGGCCGTGATGCTATGATGTCACAAAATTATTC
 TGAAACTCCTGGCCCTGAAGTTATTGTCAACAATCAGTGTCTCAACTAACTTGAGAAGCAGCTGCAG
 GCTGTCTGCAATGGATTGCAGCCTCTCAATTCATGTGCCATGCTCTACTTCATGGGAGACGATGATG
 GACAACACTAGAGAAGCTCCCTGAAGTTTCAAGCTAAGGCTGCAGAGAAGGGGTACAGTGTAGGAGATCTTCT
 TCAGGAGGTATGAAGTTTGCCAAAGAACGACAACCTGGATGAAGCCGTGGGCAACATGGCTAGAAAGCAG
 CTGCTAGACTGGCTTCTCGCTAACCTG

ACGGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG216759 representing NM_009651
Red=Cloning site Green=Tags(s)

MIAYCGTTTMSDDIDWLHSRRGVCKVDLYSPKGQQDQDRKVICFVDVSTLNVEDKDSKGAAGSRSEGELN
LETLEEKEIIVIKDTEKQDQSKTEGSVCLFKQAPSDPISVLNLLNDLQKYLGFQHALSPSASSCKHKV
GDLEGDYSKIPSENCYSVYADQVNFYLNKGPQNLREMAASKNTNNNQSPSNPATKSPSNQRSVATPEG
ECSMDDL SFYVNR LSSLVIQMARKEIKDKLEGGSKCLHHSMYTSGDKGKTSPRSVAVSKIASEMAHEAVEL
TSSEMRNGEDCRDGRKTFLYSEMCNKNKCGEKQMQCPKDSKEFADSISKGLMVYANQVASDMMVSVMT
LKVHSCGKPIPACVVLKRVLLKHTKEIVSDLIDSCMKNLHNITGVLMTDSDFVSAVKRNLFNHGKQNAAD
IMEAMLKRLV SALLGEKKETKSQSLAYATLKAGTNDPKCKNQSLF SAMKAEMKGGKCKSKADPCCCKSL
TSAERVSEHILKESLTMWNNQKQGNQGVTKVCCTSKDEKREKISPSTDSLAKDLIVSALMLIQYHLTQ
QAKGKDPCEECPGSSMGYMSQSAQYEKCGGGQSSKLSMKHFETRAGPGPSTCMKENQLESQKMDMSNM
VLSLIQKLLSESPFSCDELTESDNKRCCDPRSSKAAPMAKRPEEQCDNAELDFISGMKQMNRFIDQLV
ESVMKLC LIMAKYSNNGAALAELEEQAALVSGSRCGRDAMMSQNYSETPGPEVIVNNQCSTTNLQKQLQ
AVLQWIAASQFNVPMLYFMGDDDGQLEKLPVSAKAAEKGYSVGDLLQEVMKFAKERQLDEAVGNMARKQ
LLDWLLANL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:


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:

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: 2851 bp

RefSeq ORF: 2550 bp

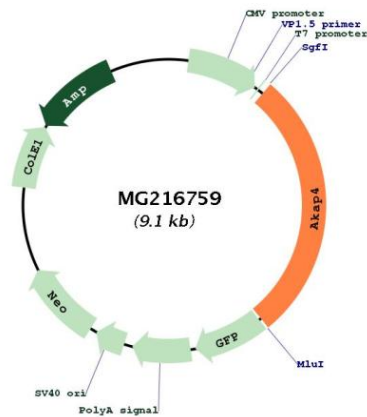
Locus ID: 11643

UniProt ID: [Q60662](#)

Cytogenetics: X 3.17 cM

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 MG216759