

## Product datasheet for **MC221987**

### Akap4 (NM\_001042542) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Akap4 (NM_001042542) Mouse Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:** >MC221987 representing NM\_001042542  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCGTGACGATATTGACTGGTTACACAGCCCGAGAGGCGTGTGCAAGGTAGATCTTTACAGTCCAAAAG  
 GACAACAAGATCAGGACCGAAAAGTGATATGCTTTGTGGATGTGTCTACCTTGAATGTGGAAGATAAAGA  
 TTCCAAGGGTGTCTGTTCCAGGTGAGAAGGCGAGTTAAATCTGGAGACTCTGGAAGAAAAAGAGATT  
 ATCGTAATCAAGGACACTGAAAAACAAGACCAGTCTAAGACGGAGGGATCTGTGTGCCTTTTCAAACAAG  
 CTCCTCTGATCTATAAGTGTCTCAACTGGCTCCTCAATGATCTCCAGAAGTATGCCTTGGGTTTCCA  
 ACATGCATTAAGCCCTCAGCCTCTAGCTGTAACATAAAGTGGGAGACCTAGAGGGTGACTATAGCAA  
 ATACCATCTGAGAACTGTACAGTGTGTACGCTGATCAAGTAACTTTGATTATTTGAACAAAGGACCTC  
 AAAACCTTCGCCTAGAAATGGCGGCATCAAAAAACCAACAATAACCAAAGTCCCTCAAATCCTGCAAC  
 CAAATCTCTAGCAATCAGAGGTCAGTTGCCACTCCTGAGGGAGAATGTTCTATGGACGACCTTTCTTTC  
 TATGTCAACCGATTGTCACTCTGGTAATCCAAATGGCCCGTAAGGAAATCAAGGACAAATTGGAAGGTG  
 GAAGCAAATGTCTCCATCATTCCATGTATACATCAGGAGATAAAGGGAAAACAGCCCCGGAGTGTGT  
 CAGCAAAATTGCTTCGGAGATGGCCATGAAGCTGTTGAACTGACCTCATCAGAAATGCGTGGCAATGGA  
 GAGGATTGCAGGGATGGCCGAAAACCTTTTGTATAGTGAATGTGTAACAAGAACAAGTGTGGCGAAA  
 AGCAGCAGATGTGCCAAAAGACAGCAAGAATTTGCGGATCCATCAGCAAGGGGCTTATGGTTTATGC  
 AAATCAAGTAGCATCTGACATGATGGTCTCTGTTATGAAAACCTTGAAGTACACAGCTGTGGGAAGCCA  
 ATTCGGCTTGTGTGGTCTGAAGAGGGTACTATTGAAGCACACCAAGGAAATTTGATCTGATCTGATTG  
 ATTCATGTATGAAAACCTGCATAACATAACAGGAGTCTGATGACAGACTCAGACTTCGTTTCTGCTGT  
 CAAGAGGAATCTTTCAATCATGGTAAACAATAAGTGCAGCGGACATCATGGAGGCCATGCTAAAGCGTCTG  
 GTCAGTGTCTTCTTGGTGAAGAAGGAGACTAAGTCTCAAAGTCTGGCCTATGCAACCTTAAAGCTG  
 GAACTAATGATCCGAAATGCAAGAATCAGAGCCTTGAAGTCTCAGCTATGAAAGCTGAAATGAAAGGAAA  
 AGATAAATGCAAAATCAAAGCAGATCCATGCTGCAAAATCGTTGACAAGTGTGAGAGAGTCAAGGAGCAT  
 ATCCTCAAAGAGAGCCTTACTATGTGGAACAACCAAGCAAGGAAACCAAGGCAAAGTACTAACAAG  
 TTTGCTGCACCAGTAAAGATGAGAAGAGAGAAAAGATCAGTCTTCCACAGATTCAGTGGCCAAGGATCT  
 AATTGTCTCTGCCCTTATGCTCATTCAATACCATCTGACCAACAAGCCAAGGGCAAAGATCCATGTGAA  
 GAGGAGTGCCTGGTTCCATGGGGTATATGTCCCAAAGTGCACAATACGAAAAATGTGGAGGTGGCC  
 AAAGTTCTAAATCACTTTCAATGAAGCATTTTGAACCTCGTGGAGCTCCTGGACCATCTACATGTATGAA  
 GGAAAACTAACTGGAGTCCCAGAAGATGGATATGTCAAACATGGTTCTGTCCCTGATTGAGAAAACCTCTG  
 AGTGAGAGCCCTTTCAGTTGCGATGAACTAACTGAAAGTGAACAATGAAAGTGTGTTGATCCTAGATCAA  
 GCAAAGCAGCTCCATGGCCAAGAGACCTGAAGAGCAATGCCAAGACAATGCAGAACTAGACTTCATCAG  
 TGGGATGAAGCAAATGAACCGCCAGTTTATAGATCAGCTGGTAGAATCCGTGATGAAACTCTGCCTGATC  
 ATGGCTAAGTACAGCAACAATGGAGCAGCCCTGGCTGAGCTGGAAGAACAAGCAGCCCTGGTAGGCAGTG  
 GCTCCAGATGTGGCCGTGATGCTATGATGTCACAAAATTATTCTGAAACTCCTGGCCCTGAAGTTATTGT  
 CAACAATCAGTGTCTACAACCTAACTTGCAGAAGCAGCTGCAGGCTGCTGCAATGGATTGCAGCCTCT  
 CAATTCATGTGCCATGCTCTACTTCATGGGAGACGATGATGGACAACCTAGAGAAGCTCCCTGAAGTTT  
 CAGCTAAGGCTGCAGAGAAGGGTACAGTGTAGGAGATCTTCTCAGGAGGTCATGAAGTTTCCAAAGA  
 ACGACAACCTGGATGAAGCCGTGGCAACATGGCTAGAAAGCAGCTGCTAGACTGGCTTCTCGCTAACCTG  
**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001042542  
**Insert Size:** 2523 bp

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001042542.2</a> , <a href="#">NP_001036007.1</a>
<b>RefSeq Size:</b>	2859 bp
<b>RefSeq ORF:</b>	2523 bp
<b>Locus ID:</b>	11643
<b>UniProt ID:</b>	<a href="#">Q60662</a>
<b>Cytogenetics:</b>	X 3.17 cM
<b>Gene Summary:</b>	<p>Major structural component of sperm fibrous sheath. Plays a role in sperm motility (PubMed:12167408).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at a downstream start codon compared to variant 1. The encoded isoform (b) has a shorter N-terminus compared to isoform a. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>