

## Product datasheet for **MC222038**

### **Akap4 (NM\_009651) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Akap4 (NM_009651) 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:** >MC222038 representing NM\_009651  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGATTGCCTACTGTGGTACTACAACGATGTCTGACGATATTGACTGGTTACACAGCCGCAGAGGCGTGT  
 GCAAGGTAGATCTTTACAGTCCAAAAGGACAACAAGATCAGGACCGAAAAGTGATATGCTTTGTGGATGT  
 GTCTACCTTGAATGTGGAAGATAAAGATTCCAAGGGTGTCTGTTCCAGGTCAGAAGGCGAGTTAAAT  
 CTGGAGACTCTGGAAGAAAAAGAGATTATCGTAATCAAGGACACTGAAAAACAAGACCAGTCTAAGACGG  
 AGGGATCTGTGTGCCTTTCAAACAAGCTCCCTCTGATCTATAAGTGTCTCAACTGGCTCCTCAATGA  
 TCTCCAGAAGTATGCCTTGGGTTTCCAACATGCATTAAGCCCTCAGCCTCTAGCTGTAACATAAAGTG  
 GGAGACCTAGAGGGTACTATAGCAAAATACCATCTGAGAAGTGTACAGTGTGTACGCTGATCAAGTAA  
 ACTTTGATTATTTGAACAAAGGACCTCAAACCTTCGCCTAGAAATGGCGGCATCCAAAAACACCAACAA  
 TAACCAAAGTCCCTCAAATCCTGCAACCAAATCTCCTAGCAATCAGAGGTCAGTTGCCACTCCTGAGGGA  
 GAATGTTCTATGGACGACCTTTCCTTCTATGTCAACCGATTGTCACTCTCTGGTAATCCAAATGGCCCGTA  
 AGGAAATCAAGGACAAATTTGAAGGTGGAAGCAATGTCTCCATCATTCCATGTATACATCAGGAGATAA  
 AGGAAAAACGACCCCGGAGTGTCTGACGAAAATTTGCTTCGGAGATGGCCATGAAGCTGTTGAACTG  
 ACCTCATCAGAAATGCGTGGCAATGGAGAGGATTGCAGGGATGGCCGAAAACCTTTTTGTATAGTGAAA  
 TGTGTAACAAGAACAAGTGTGGCGAAAAGCAGCAGATGTGCCAAAAGACAGCAAGAATTTGCGGATTC  
 CATCAGCAAGGGGCTTATGGTTTATGCAAAATCAAGTAGCATCTGCATGATGGTCTCTGTTATGAAAAT  
 TTGAAAGTACACAGCTGTGGGAAGCCAATTCGGCTTGTGTGGTCTGAAGAGGGTACTATTGAAGCACA  
 CCAAGGAAATTTGATCTGATCTGATTGATTCATGTATGAAAAACTGCATAACATAACAGGAGCTTGAT  
 GACAGACTCAGACTTCGTTTCTGCTGTCAAGAGGAATCTTTTCAATCATGGTAAACAAAATGCAGCGGAC  
 ATCATGGAGGCCATGCTAAAGCGTCTGGTCACTGCTCTTCTTGGTGAGAAGAAGGAGACTAAGTCTCAAA  
 GTCTGGCCTATGCAACCTTAAAAGCTGGAATAATGATCCGAAATGCAAGAATCAGAGCCTTGAGTTCTC  
 AGCTATGAAAGCTGAAATGAAAGGAAAAGATAAATGCAAAATCCAAAGCAGATCCATGCTGCAAAATCGTTG  
 ACAAGTGTGAGAGAGTCAAGCAGCATATCCTCAAAGAGAGCCTTACTATGTGGAACAACCAAGAGCAAG  
 GAAACCAAGGCAAAGTACTAACAAGTTTGTGCACCAGTAAAGATGAGAAGAGAGAAAAGATCAGTCC  
 TTCCACAGATTCCTGGCAAGGATCTAATTGTCTCTGCCCTTATGCTCATTCAATACCATCTGACCCAA  
 CAAGCCAAGGCAAAGATCCATGTGAAGAGGAGTGCCTGGTTCCCTCCATGGGGTATATGTCCCAAAGTG  
 CACAATACGAAAAATGTGGAGGTGGCCAAAGTTCTAAATCACTTCAATGAAGCATTTTGAAACTCGTGG  
 AGCTCCTGGACCATCTACATGTATGAAGGAAAATCAACTGGAGTCCCAGAAGATGGATATGTCAAACATG  
 GTTCTGTCCCTGATTCAGAAACTCCTGAGTGAAGAGCCCTTTCAGTTGCGATGAACTAACTGAAAGTGACA  
 ATAAGCGTTGTTGTGATCCTAGATCAAGCAAAGCAGCTCCATGGCCAAGAGACCTGAAGAGCAATGCCA  
 AGACAATGCAGAACTAGACTTATCAGTGGGATGAAGCAAATGAACCGCCAGTTTATAGATCAGCTGGTA  
 GAATCCGTGATGAAACTCTGCCTGATCATGGCTAAGTACAGCAACAATGGAGCAGCCCTGGCTGAGCTGG  
 AAGAACAAGCAGCCCTGGTAGGCAGTGGCTCCAGATGTGGCCGTGATGCTATGATGTACAAAATTTATTC  
 TGAAACTCCTGGCCCTGAAGTTATTGTCAACAATCAGTGTCTCAACTAACTTGAGAAGCAGCTGCAG  
 GCTGTCTGCAATGGATTGCAGCCTCTCAATCAATGTGCCATGCTCTACTTCATGGGAGACGATGATG  
 GACAACACTAGAGAAGCTCCCTGAAGTTTCAAGCTAAGGCTGCAGAGAAGGGGTACAGTGTAGGAGATCTTCT  
 TCAGGAGGTATGAAGTTTGCCAAAGAACGACAACCTGGATGAAGCCGTGGGCAACATGGCTAGAAAGCAG  
 CTGCTAGACTGGCTTCTCGCTAACCTGTAA

**ACGGT**ACGGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_009651  
**Insert Size:** 2550 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_009651.4</a> , <a href="#">NP_033781.2</a>
<b>RefSeq Size:</b>	2855 bp
<b>RefSeq ORF:</b>	2550 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 (1) encodes the longer isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>