

## Product datasheet for **RN212564**

### **Akap4 (NM\_024402) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Akap4 (NM_024402) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Akap4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN212564 representing NM\_024402  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATTGCTTACTGTGGCACTACAAAGATGTCTGATGACATTGACTGGTTACACAGCCGAGAGGCGTGT  
 GCAAGGTAGATCTTTACAGCCCAGAAGGACAACAAGATCAGGACCGAAAAGTGATATGCTTTGTGGATGT  
 GTCCACCTTGAATGTGGAAGATGATTCCAAGGGTCTGCTGGTCCAGGTGACAGCGGAATTAACCTG  
 GAGAATCTGGAAGAAAAAGATTATCGTGATCAAGGACACAGAAAAACAAGACCAGCCTAAGACGGAGG  
 GATCTGTATGCCTTTTCAAACAAGCTCCCTCTGACCCCAAAAGTGTCTCAACTGGCTCCTCAATGATCT  
 CCAGAAGTACGCCTTGGGTTTCCAACATGCATTAAGTCCCTCAGCCTCTAGCTGTAACATAAAGTAGGA  
 GACCTAGAGGGTATTATCACAAAATCCCTCAGAGAAGTGTACAGTGTGTATGCTGATCAAGTAACT  
 TAGATTATTTGAACAAAGGACCTCAAACCTTCGCCTAGAAATGGCGGCATCCAAAATACCAACAATAA  
 CCAAAGTCCCTCAAATCTGCAACTAAATCTCCTAGCAATCAGAGGTGAGTTGCCACTCCTGATGGAGAA  
 TGTTTCGATGGACGACCTCTCTACTATGTCAACCGATTGTCATCTCTAGTAATCCAAATGGCCCGTAAGG  
 AAATCAAGGACAATTTGAAGGTGGAAACAATGCCTCCATCATTCCATGTATACATCAGGAGAAAAGGG  
 GAAAACAGCCCCCGAGTGTGTGAGCAAAATGCTTCTGAGATGGCCCATGAAGCTGTTGAACTGACC  
 TCATCAGAAATGCGTGGAATGGAGAAGAAGGCAGGATGGCCGAAAACCTTTTGTATAGTGAGTTAT  
 CTAATAAGAACAAGTGTGGAGAGAAGCAGCAGATGTGCCAAAAGACAGCAAGAATTTGCGAGTTCCAT  
 CAGCAAGGGCTTATGGTTTATGCAATCAGGTAGCATCTGACATGATGGTCTCTGTTATGAAAACCTTG  
 AAAGTGACAGCTGTGGGAAGCCAATCCAGCTTGTGTGGTCTGAAGAGGGTACTATTAAGCACACCA  
 AGGAAATTTGATCTGATCTGATTGACTCATGATGAAGAATGCATAATATAACAGGAGCTCCTGATGAC  
 AGACTCAGACTTCGTTTCTGCTGTCAAGAGGAATCTTTTCAATCATGGTAAACAAAATGCAGCAGACATC  
 ATGGAGGCCATGTAAAGCGTCTGGTCACTGCTCTTCTGGTGAAGAAGGAGACTAAATCTCAAAGTT  
 TGGCATATGCAACCTTAAAAGCTGGAACCTCATGACCCGAAATGCAAGAATCAGAGCCTTGAGTTCTCAGC  
 TATGAAAGCTGAAATGAAAGGAAAGGACAAAGGCAAAACTAAAGGAGATCCATGCTGTAATCACTGACA  
 AGTGTGAGAGAGTCAAGCAACATATCCTCAAAGAGAGCCTTACTATGTGGAACAACCAGAAGCAAGGAA  
 CCCAAGGCAGGGTGCCTAACAAAGTATGCCCTAGTAAAGATGAAAAGAGAGAGAAGATCAGTCTCCAC  
 AGACTCACTGGCCAAGGATCTAATTGTCTCTGCCCTTATGCTCATTCAATACCATCTGACCAACAAGCG  
 AAGGGCAAAGATCCATGTGAAGAGGAGTGCCTGGTTCCTCCATGGGCTATATGTGCAAAAGTGCACAAT  
 ATGAAAAGAGTGGAGGTGGCCAAAGTTCTAAATCACTTTCAATGAAGCATTGTAATCTCGTGGAGCTCC  
 TGGACCATCTACATGTGCGAAGGAAAATCAACTTGAGTCCCAGAAGATGGATATGTCAAACATGGTTCTG  
 TCCCTGATTACAGAACTTCTGAGTGAGAGCCCTTTAGCTGTGATGAACTATCTGAAAGTGAATAAAGC  
 GTTGTGTGATTCTCGATCAAAGCAAGCAGCTCCCGTGGCCAAGAGACCTGAAGATCAAAGCCAAGACAG  
 CACAGAAATGGACTTCATCAGCGGGATGAAGCAATGAACCGGCAGTTTATAGACCAACTAGTAGAATCG  
 GTGATGAACTGTGCCTGATCATGGCTAAGTACAGCAACAATGGAGCAGCACTAGCTGAGCTAGAAGAGC  
 AAGCAGCCCTAGCAAGCAATGGCCCCAGATGTGGCCGTGAGGCTGTGATGTCACAAAGTTATCTGAAAC  
 TCCTGGCCCTGAAGTTATCGTCAACAATCAGTGTCTACAAGCAACTTGCAAGCAGCTGCAGGCTGTC  
 CTGCAATGGATTGCAGCGTCTCAGTTTAAATGTGCCATGCTCTACTTTCATGGGAGATGATGATGGACAAC  
 TAGAGAAGCTCCCTGAAGTTTACGTAAGGCAGCAGAGAAAGGTTACAGTGTAGGAGATCTTCTTACGGA  
 GGTGATGAAGTTTGCAAAGAACGACAAGTGGATGAAGCCGTGGGCAACATGGCTAGAAAGCAACTGCTG  
 GACTGGCTTCTCGCTAACCTG**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_024402  
**Insert Size:** 2544 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_024402.1</a> , <a href="#">NP_077378.1</a>
<b>RefSeq Size:</b>	2786 bp
<b>RefSeq ORF:</b>	2544 bp
<b>Locus ID:</b>	79254
<b>UniProt ID:</b>	<a href="#">O35774</a>
<b>Cytogenetics:</b>	Xq12
<b>Gene Summary:</b>	Major structural component of sperm fibrous sheath. May play a role in sperm motility (By similarity).[UniProtKB/Swiss-Prot Function]