

Product datasheet for **MC220508**

Akap8 (NM_019774) Mouse Untagged Clone

Product data:

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|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Akap8 (NM_019774) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Akap8 |
| Synonyms: | 1200016A02Rik; AA673585; AKA; AKAP-8; AKAP95; AU015639 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >MC220508 representing NM_019774
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCAAGGCTACGGAGGCTATGGGCGATGGAGTGTGGACCTGCCAACACCCAGGGTACATATGGAA
 GTGGTATGACCAGCTGGCAAGGTTATGAAAACACAACACTACAATGCCAGAACCAGTGTCCCTGC
 AGGAACACCCCTATAGTTACGGCCAGCCTCATGGGAGGCCACCAAGACCAATGATGGTGGCCTGGCAGT
 GGGAGCCCTGCCATGCATGTGGCGTCTTTTGGCCAGAGCCATGTACCGACAACCTCAGACTCGCTCATTG
 CCAAGATCAATCAACGTTTGGACATGTTGTCTAAGGAAGGAGGCAGGGGTGGGATCAGCAGCGGTGGGGA
 GGGCGTGCAGGACCGAGACAGCTCCTCCGCTTCCAGCCATACGAGTCTACGACGCCAGGCCCTGTATA
 CCTGAGCATAATCCCTACCGCCCGGCTACGGTTATGATTATGACTTTGACTTGGAACTGACCGCAATG
 GTAGCTTTGGTGGACATCAACGACTGTCCGGACCCAGCCCAGAGCGGGGCTCCCTTGATGGTTTCTT
 GAGGGGCCGGGGCAGGGCCGCTTCCAAGACCGGAGCACTCCAGCACCTTCATACGTAGTGACCCCTTC
 ATGCCACCCTCAGCCTCGAGCCCTTATCCACTACGTGGAATGAGCTGAACTACATGGGTGGCCGTGGTC
 TCGGTGGGCCCTCCACCAGCAGGCCACCTCCTTCCCTTCTCTCCAGTCCATGGCCCTGACTACAGCAT
 GATGGGCATGCAGGGGTGGCGGTTTTGGTGGTACCATGCCTTACGGATGTGGCCGGTCCAGACGCGG
 ATACGGGATTGGCCTAGAAGGAGGGGTTTTGAACGCTTTGGACCAGACAACATGGGCAGGAAGCGGAAGC
 AGTTTCCATTGTATGAAGAACCTGATGCCAACTGGCCCGTGTGACAGTGACGGAGATCTGTCTGAAAA
 CGATGATGGAGCTGGTGACTTAAGATCAGGAGATGAAGAATTGAGGGGGAGGATGACTTGTGTGACTCC
 AGGAAGCAGAGAGAGAAAAGGAGGACGAGGATGAGGATGTGAAGAAGAGACGGGAGAAAACAAAGGAGGA
 GAGACAGGATGCCGGACCGAGCAGCTGACAGGATTCAGTTTGCCTGTTCTGTATGCAAGTTTCGTAGCTT
 TGAAGATGAAGAAATTCAAAAGCATCTGCAAAGTAAATTTCAAAAGAGACTTTGCGATTATAAGTACC
 AAAGTCCCGACAAAGACAGTAGAATTCCTCCAGGAGTACATCATAAACAGGAATAAGAAAATTGAGAAAC
 GGCGTCAGGAGTTGTTGGAGAAGGAGAGCCCTAAACCCAAACCAGATCCATTCAAAGGCATTGGCCAGGA
 GCATTTCTTCAAAGATTGAAGCCGCACATTGCCTAGCCTGTGACATGCTGATTCTGCGCAGCATCAG
 CTTCTCCAGCGGCATCTGCATTCGCTGGACCATAACCATAATCGAAGGTTGGCTGCTGAGCAGTTCAAGA
 AAACAAGTCTCCATGTGGCTAAGAGTGTGTTGAACAACAACATATAGTGAAGATGCTGGAAAAATACCT
 CAAGGGTGAAGATCCTTTTGTCAATGAACTGCTGACCTTGAGACAGAAGGAGATGAAAAATGAGGAGAG
 GAGAAGGAGGAGACACCAGAGGAGGTAGCTGCCAAGTCTTAGCAGAGGTGATCACAGCAGCAGTGAAGG
 CTGTAGAGGGGGAAGGAGAACCTGCTGCAGCGCATAGTGACGTCCTAACTGAAGTGAAGGGCCTGTGGA
 CACAGCAGAGGCCAGCAGTGACCCACACTGAAAAGCTACTAGAAGAGCAGACCTGTGAAGCAGCATCT
 GAAACCAGGAGCATCGAAGACAAGACCAGAGGTGAGGCTGCTGAGGCCAGAAACGAAGCAGCTATGCCAA
 CAGCAGACGCAGGAAGCACGTTACCTGTATAGCAATCCCGGGAATCATGGAAGATGAGCTGGAACAAAC
 TGGTGCAGAGGCCAAAGATATCCACCGAATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_019774
- Insert Size:** 2064 bp
- OTI Disclaimer:** 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).
- 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_019774.5](#), [NP_062748.2](#)

RefSeq Size: 3801 bp

RefSeq ORF: 2064 bp

Locus ID: 56399

UniProt ID: [Q9DBR0](#)

Cytogenetics: 17 B1

Gene Summary: This gene encodes a member of the A-kinase anchoring protein (AKAP) family. These proteins are characterized by their ability to bind to the R subunit of protein kinase A (PKA) and anchor the protein at different subcellular locations. This protein has been shown to regulate apoptosis and to be involved in palatogenesis. Knockdown of this gene has been associated with altered histone modifications and reduced expression of developmental genes in mouse embryonic stem cells. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2015]

Transcript Variant: This variant (1) represents the shortest transcript and encodes the protein.