

## Product datasheet for **MR215718**

### **Akap8 (NM\_019774) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Akap8 (NM_019774) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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)



[View online »](#)

**ORF Nucleotide  
Sequence:**

>MR215718 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCAAGGCTACGGAGGCTATGGGCGATGGAGTGCTGGACCTGCCAACACCCAGGGTACATATGGAA  
 GTGGTATGACCAGCTGGCAAGGTTATGAAAACACTACAACACTACAATGCCAGAACCAGTGTCCCTGC  
 AGGAACACCCCTATAGTTACGGCCAGCCTCATGGGAGGCCACCAAGACCAATGATGGTGGCCTGGCAGT  
 GGGAGCCCTGCCATGCATGTGGCGTCTTTTGGCCAGAGCCATGTACCGACAACCTCAGACTCGCTCATTG  
 CCAAGATCAATCAACGTTTGGACATGTTGTCTAAGGAAGGAGGCAGGGGTGGGATCAGCAGCGGTGGGA  
 GGGCGTGCAGGACCGAGACAGCTCCTCCGCTTCCAGCCATACGAGTCTACGACGCCAGGCCCTGTATA  
 CCTGAGCATAATCCCTACCGCCCGGCTACGGTTATGATTATGACTTTGACTTGGAACTGACCGCAATG  
 GTAGCTTTGGTGGGACATTCAACGACTGTCCGGACCCAGCCCAGAGCGGGCTCCCTTGATGGTTTCTT  
 GAGGGGCCGGGGCAGGGCCGCTTCCAAGACCGGAGCACTCCAGCACCTTCATACGTAGTGACCCCTTC  
 ATGCCACCCTCAGCCTCGGAGCCCTTATCCACTACGTGGAATGAGCTGAACTACATGGGTGGCCGTGGTC  
 TCGGTGGGCCCTCCACCAGCAGGCCACCTCCTTCCCTTCTCTCCAGTCCATGGCCCTGACTACAGCAT  
 GATGGGCATGCAGGGGTGGGCGGTTTTGGTGGTACCATGCCTTACGGATGTGGCCGGTCCAGACGCGG  
 ATACGGGATTGGCCTAGAAGGAGGGGTTTTGAACGCTTTGGACCAGACAACATGGGCAGGAAGCGGAAGC  
 AGTTTCCATTGTATGAAGAACCTGATGCCAAACTGGCCCGTGCTGACAGTGACGGAGATCTGTCTGAAAA  
 CGATGATGGAGCTGGTGACTTAAGATCAGGAGATGAAGAATTGAGGGGGAGGATGACTTGTGTGACTCC  
 AGGAAGCAGAGAGGAGAAAAGGAGGACGAGGATGAGGATGTGAAGAAGAGACGGGAGAAAACAAAGGAGGA  
 GAGACAGGATGCCGGACCGAGCAGCTGACAGGATTCAGTTTGCCTGTTCTGTATGCAAGTTTCGTAGCTT  
 TGAAGATGAAGAAATTCAAAAGCATCTGCAAAGTAAATTTCAAAAGAGACTTTGCGATTATAAGTACC  
 AAAGTCCCGACAAAGACAGTAGAATTCCTCCAGGAGTACATCATAAACAGGAATAAGAAAATTGAGAAAC  
 GGCGTCAGGAGTTGTTGGAGAAGGAGAGCCCTAAACCCAAACCAGATCCATTCAAAGGCATTGGCCAGGA  
 GCATTTCTTCAAAAAGATTGAAGCCGCACATTGCCTAGCCTGTGACATGCTGATTCTGCGCAGCATCAG  
 CTTCTCCAGCGGCATCTGCATTCGCTGGACCATAACCATAATCGAAGGTTGGCTGCTGAGCAGTTCAAGA  
 AAACAAGTCTCCATGTGGCTAAGAGTGTGTTGAACAACAACATATAGTGAAGATGCTGGAAAAATACCT  
 CAAGGGTGAAGATCCTTTTGTCAATGAACTGCTGACCTTGAGACAGAAGGAGATGAAAAATGAGGAGAG  
 GAGAAGGAGGAGACACCAGAGGAGGTAGCTGCCGAAGTCTTAGCAGAGGTGATCACAGCAGCAGTGAAGG  
 CTGTAGAGGGGGAAGGAGAACCTGCTGCAGCGCATAGTGACGTCCTAACTGAAGTGAAGGCCTGTGGA  
 CACAGCAGAGGCCAGCAGTGACCCACACTGAAAAGCTACTAGAAGAGCAGACCTGTGAAGCAGCATCT  
 GAAACCAGGAGCATCGAAGACAAGACCAGAGGTGAGGCTGCTGAGGCCAGAAATGAAGCAGCTATGCCAA  
 CAGCAGACGCAGGAAGCACGTTACCTGTATAGCAATCCCGGGAATCATGGAAGATGAGCTGGAACAAAC  
 TGGTGCAGAGGCCAAAGATATCCACCCGAA

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR215718 protein sequence  
Red=Cloning site Green=Tags(s)

MEQGYGGYGAWASAGPANTQGTYSGMSTWQGYENYNYNAQNTSVPAGTPYSYGPASWEATKTNDGGLAA  
 GSPAMHVASFPEPCTDNSDSLIAKINQRLDMLKEGGRGGISSGGEGVQDRDSSFRFPYESYDARPCI  
 PEHNYPYRPGYGYDYDFDLGTRNGSFGGTFNDCRDPAPERGLDGLRGRGQGRFQDRSNSSTFIRSDPF  
 MPPSASEPLSTTWNELNYMGGRLGGPSTSRPPPSLFSQSMAPDYSMMGMQGVGGFGGTMPIYGCGRSQTR  
 IRDWPRRRGFERFGPDNMGRKRKQFPLYEEDAKLARADSDGDLSENDDGAGDLRSGDEEFRGEDDLCDL  
 RKQRGEKEDEDEDVKKRREKQRRRDRMRDRAADRIQFACSVCKFRSFEDEEIQKHLQSKFHKETLRFIST  
 KLPDKTVEFLQEYIINRNKIKERRQELLEKESPKPKPDPFKGIGQEHFFKKIEAAHCLACDMLIPAQHQ  
 LLQRHLHSDHNHRRLAAEQFKKTSLVAKSVLNNKHIKMLEKYLKGEDPFVNETADLETEGDENVGE  
 EKEETPEEVAEVLAEVITAAVKAVEGEGEPAAAHSDVLTEVEGPVDTAEASSDPHTEKLLLEEQTCEAAS  
 ETRSIEDKTRGEAAEARNEAAMPADAGSTLPVIAIPGIMEDELEQTGAEAKDIPTE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_019774

**ORF Size:** 2064 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\\_019774.1](#), [NM\\_019774.2](#), [NM\\_019774.3](#), [NM\\_019774.4](#), [NM\\_019774.5](#), [NP\\_062748.2](#)

**RefSeq Size:** 3695 bp

**RefSeq ORF:** 2064 bp

**Locus ID:** 56399

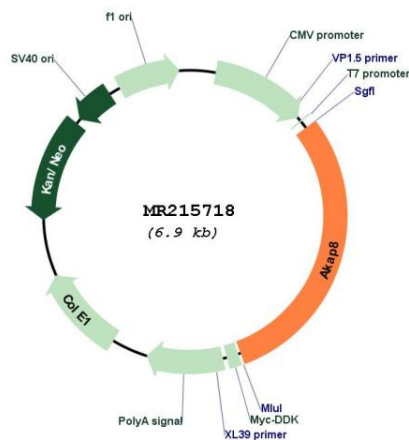
**UniProt ID:** [Q9DBR0](#)

**Cytogenetics:** 17 B1

**MW:** 76.3 kDa

**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]

### Product images:



Circular map for MR215718