

## Product datasheet for MR205740

### Akap10 (BC054105) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Akap10 (BC054105) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Akap10
Synonyms:	1500031L16Rik; B130049N18Rik; D-AKAP-2; D-AKAP2; PRKA10
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR205740 representing BC054105 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGAAAAGTATAGAACAAGATGCAGTGAATACTTTACCAAATATATATCTCCAGATGCTGCTAAGCCAA  
TACCAATTACAGAAGCCATGAGAAACGACATCATCGAAAGATTTGTGGAGAAGATGGACAGGTGGATCC  
CAACTGTTTCGTTCTGGCACAGGCTGTAGTCTTTAGTGAATGGAGCAAGAGCACTTTAGTGAGTTTCTG  
CGAAGTACCATTCTGTAAATACCAGATTGAAGTGTGACCAAGTGGACTGTTTACCTGGCTGATATCC  
TCTTCTGTGAGTCAGCCCTCTTTATTTTTCTGAGTACATGAAAAAGAAGATGCAGTGAATGTCTTACA  
ATTCTGGTTAGCAGCGGATAATTTCCAGTCTCAGCTTGCTGCCAAAAAGGGCCAGTATGATGGACAGGAG  
GCCCAGAATGATGCCATGATTTTATATGACAAGTACTTTCCCTCCAAGCCACACACCCCTTGGATTTG  
ATGATGTTGTACGATTAGAAATTGAATCTAATATCTGCAGGGAAGGTGGACCACTTCTAATTTGTTTAC  
AACTCCATTACGTCAGGCCTGGACAACCATGGAGAAGTCTTTTTGCCTGGTTTTCTGTCCAGCAATCTT  
TATTACAAATATTTGAATGATCTCATCCATTGAGTTCGAGGAGATGAATTTCTGGAGGGAATGTTTCCC  
TGGCTGCTCAGGCTCTGTCTGCCTTCTGAGGAGTCTCACTCAGTGGTCCGATGGCTCCACTGCTCA  
GTCTAGTGTAAAAAGCCAGTATTAATACTGAAAAATTTTATGATGAAGCAATAATTGTGGATGCTGCA  
AGTCTGGACCCAGAATCTTTATATCAACGGACATATGCAGGGAAGATGTCCTTTGGGAGAGTTAGTGATT  
TGGGGCAGTTCATCCGAGAGTCTGAGCCTGAACCTGATGTGAAGAAATCAAAGGATTTATGTTCTCACA  
AGCTATGAAGAAGTGGGTGCAAGGAAATACTGACGAGGCCAAGAAGAGCTAGCTTGAAGATTGCAAAA  
ATGATAGTGAGTGATGTTATGCAGCCGGCACACCATGATCAACCACTAGAGAAGTCTACAAAGCTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205740 representing BC054105  
 Red=Cloning site Green=Tags(s)

MKSIEQDVA NTFTKYISPDAAKPIPI TEAMRNDIIAKICGEDGQVDPNCFVLAQAVVFSAMEQEHFSEFL  
 RSHHFCKYQIEVLTSGTVYLADILFCESALFYFSEYMEKEDAVNVLQFWLAADNFQSQLAAKKGQYDGQE  
 AQNDAMILYDKYFSLQATHPLGFDDVVRLEIESNICREGGPLPNCFTTPLRQAWTMEKVFLPGFLSSNL  
 YYKYLNDLIHSVRGDEFLLGGNVSLAAHGSVCLPEESHSGGSDGSTAQSSVKKASIKILKNFDEAIIVDAA  
 SLDPESLYQRTYAGKMSFGRVSDLGQFIRESEPEPDVKKSKGFMFSQAMKKWVQGN TDEAQEELAWKIAK  
 MIVSDVMQPAHHDQPLEKSTKL

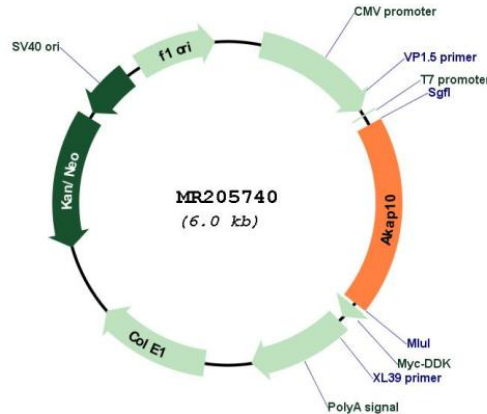
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** BC054105

<b>ORF Size:</b>	1116 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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="#">BC054105.1</a>
<b>RefSeq Size:</b>	2836 bp
<b>RefSeq ORF:</b>	1118 bp
<b>Locus ID:</b>	56697
<b>Cytogenetics:</b>	11 B2
<b>MW:</b>	104 kDa
<b>Gene Summary:</b>	<p>This gene encodes a member of A-kinase anchoring proteins (AKAPs), a family of functionally related proteins that target protein kinase A to discrete locations within the cell. The encoded protein is localized to mitochondria and interacts with both the type I and type II regulatory subunits of PKA. It has been reported that this protein is important for maintaining heart rate and myocardial contractility through its targeting of protein kinase A. In mouse, defects of this gene lead to cardiac arrhythmias and premature death. In humans, polymorphisms in this gene may be associated with increased risk of arrhythmias and sudden cardiac death.</p> <p>[provided by RefSeq, May 2013]</p>