

Product datasheet for **MR210725**

Akap2 (BC003735) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Akap2 (BC003735) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Akap2
Synonyms:	AKAP-KL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210725 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGA AAT TGGGT GTCCGTGGCAGAATGTAAAAGTGTACCTGGAGTCACTCTACCCCCATTCCAAGG
 ACCACTCCTCCCTTTCTATTCCGCTCACACAATGGCCTCCTCGCTGATCACCAGAGTCTTTAGACAA
 CGATGTCGCCAGAGAGATCCAGTACCTAGATGAAGTGTGGAGGCCAACTGCTGTGATTCCTCTGCGGAT
 GGA AACTTACAACGGAATCTCTCCCCAGAGCCTGGTGCAGCCATACTGGTAAGCAGCTTAGGTTCCGCTG
 CCCACTCAGTCACCGAGGCAGAACCCTAGAAAAGCATCCGGTAGGCAGGTGCCCTCACATTGAGCT
 CAGTAGAAGCCCCCTCCGACAGAATGGCTGAAGGAGAAAGGCCAATGGACTCCACTGACCAGCCCCAA
 GACCTGCTGGGGAACAGCCTGCAGGCACCTGCCAGCCCCAGTTCTCTACCAGCTCCACTGCTCCTCCC
 GAGATGGGGAGTTCACACTCACCACACTGAAGAAGGAGGCCAAGTTTGGCTGCGTGCCTCCACGAGGA
 CAAGAAGCCCTCAAGCTCTTTGAGGAGACGAGCGCGAGAAAGAGCAGTTCTGCGTCCGAAAAGTGAGG
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 ATCCTGGCATCGCCGCCAAGTGGTGAATCCTCCCCAGGAGAAAATATTGAGGAGCAGCTGGACGAGGA
 ACATCTGGAGTCGCACAGAAAAGTACAAGGAACGCAAGAGAAAAGGGCCAGCAGGAGCAGCTACAGTTG
 CAACAGCAGCAGCAGCAACAGCTGCAACAGCAACAGCTGCAACAACAGCTGCAACAGCAACAGCTGCAAC
 AGCAACAGCTGCAACAGCAACAGCTGCAACAACAGCTGCAACAGCAGCAGCTGTCCACGTCCCAGCCCTG
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 CGAGACACCCAGTGCCCTCAGGAAAACCTGGCTGATTTCTCTCTGCCTCAGACCCCCAAACAGAC
 AACCTTCCGAGGGCCGAGAAGGGTCTCCAAGTATTAGTACCATGGTTTCTATTCTCCTTCTCCTCA
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 GAGCCTGAAGCTGGAAGCCAGACACCTGGCTCTGAGAAGCCCCAGGGCATGTTTGCACCCTCAGGTGT
 CCTCTCCTGTTCAAGAGAAAAGGGATATATTACCAAGAACCTCCCTGCGGAGGACAGGGCACTCAGGGA
 AAAGGGACCTCCAGCCACCCAGGCTGCGCAGCCAGCGGTCCAGTCAACATGGAAGAGACCAGGCCT
 GAAGGAGGGTACTTCAGCAAGTATTAGAGGCAGCTGAGCTGAGAAGCACAGCCTCCCTCCTGGCGACTC
 AAGAGTCTGATGTCATGGTTGGCCCTTCAAAGTGAAGTCAAGGAAGCAGCGGACTTTGTCCATGATCGA
 AGAAGAGATCCGGCAGCCAGGAAAGGGAGGAGAGCTAAAGCGGCAGAGACAAGTGAAGCAAGCACC
 CCAAGCCCCAGGGCCAAGAAGCCCCATCGCTGCCTTCTAGGACCACCTGCTACAAGACTGCTCCAGGTC
 CTGGAGGCCACACGGGT

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210725 protein sequence

Red=Cloning site Green=Tags(s)

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MEIGVSAECKSVPGVTSTPHSKDHSSPFYSPSHNGLLADHHESLDNDVAREIQYLDEVLEANCCDSSAD
GTYNGISSPEPGAAILVSSLGSPAHSVTEAEPTKASGRQVPPHIELSRSPSDRMAEGERANGHSTDQPQ
DLLGNSLQAPASPSSTSSHCSRIDGEFTLTTLKKEAKFELRAFHEDKKPSKLFEEDEKEQFCVRKVR
PSEEMIELEKERRELIRSQAVKKNPGIAAKWVNPPQEKIIEEQLDEEHLESHRKYKERKEKRAQQEQLQL
QQQQQQQLQQQLQQQLQQQLQQQLQQQLQQQLQQQLQQQLQQQLSTSQPCTAPAAHKHLDGIEHTKEDVVTEQ
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QKAPCVSESQSAGAGPANAATQGKEGPYSEPSKRGPLSKLWAEDGEFTSARAVLTVVKDEDHGILDQFSR
SVNVSLTQEELDSGLDEL SVRSQD TT VLETL SNDF SMDNISDSGASNETPSALQENSLADFSLPQTPQTD
NPSEGREGVSKSFS DHGFYSPSSTLGDSPSVDDPLEYQAGLLVQNAIQQAIAEQVDKAEHTSKERSEQQ
EPEAGSQTPGSEKPOGMFAPPQVSSPVQEKRDILPKNLPAEDRALREKGPSQPPTAAQPSGPNMEETRP
EGGYFSKYSEAAELRSTASLLATQESDVMVGFKLR SRKQRTL SMIEEERAAQEREELKRQRQVRQST
PSPRAKNAPSLPSRTTCYKTAPGPGGHTG
  
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: BC003735

ORF Size: 2397 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: [BC003735](#), [AAH03735](#)

RefSeq Size: 2807 bp

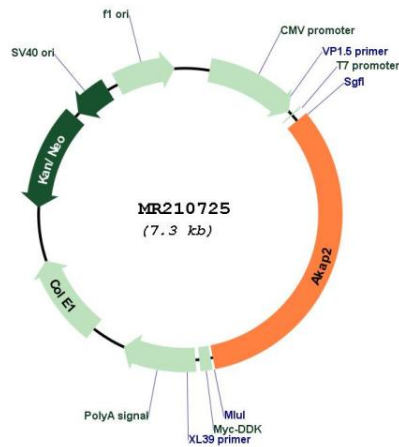
RefSeq ORF: 2399 bp

Locus ID: 11641

Cytogenetics: 4 B3

MW: 87.9 kDa

Product images:



Circular map for MR210725