

Product datasheet for **RR201716**

Akap10 (NM_001114606) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Akap10 (NM_001114606) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Akap10
Synonyms:	D-akap2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RR201716 representing NM_001114606
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGAGGGGAGCCGGCCCTCCCCGCGACTCCCCCGGCCCTCCGCCCGACCCGGGCCCCGCCATGT
CCTTCTCCGGCGGAAAGTGAAAGGTAAAGAGCAAGAGAAGAAGCTTAGATGTCAAATCCATTAAAGCTTC
AATAGCCGTACATTCCCCACAAAAAGCACTAAAAATCATGCCTTGTGGAAGCTGCAGGACCAAGTCAT
GTTGCAATCAATGCCATTTCTGCCAACATGGACTCTTTTTCAAGTAGCAGGACAGCAACGCTTAAGAAAC
AGCCAAGCCACATGGAGGCTGCTCATTTTGGAGACTTGGGCAGATCCTGTCTGGACTATCAAACCAAGA
GACCAATCCAGTCTTTCAAAGACCCCTGAACAAGTCTTACGTGACAGTGTGTCTTCCATATTTCTT
CAGTTTATGGAAGTTCGGAGAATGGAGCACCTGGTGAATTTTGGTTAGAGGCTGAAAGTTTTCACTCTA
CAACTTGGTCCCAGATAAGAGCACACAGTCTAAACACAGTGAAACAGAGTTCCTGGCTGAGCCTGTCTC
TCCATCTAAAAACAGGAAACGACAGCGTCTTTGTAAGTGTCTCTTGACAGGAGTTGGGAGATTCT
AGCTCAGCCCCACTACTTTTACTCAATCAGAAGGAACTGACCTGAGTAGAAGTCTGAAACACTCAGA
ATCACTTGTGCTTTCCAGGAATGCCACAGTACCCATTCTCTCCATCATGAAGTGGCCAGAACAGGAAC
TCATCAGATTTCCACTGACTCCCAAGAATCCTCTTCCAGACTTGCAGTAGCCAGTAGAAACAGTTGCTCT
TCTCCACTGAGAGAAGTGTGAGAAAACTAATGAAAAGTATAGAACAAGTGCAGTGAATACTTTTACCA
AATATATCTCTCCAGATGCTGCTAAACCAATACCAATTACAGAAGCCATGAGAAACGACATCATAGCAA
GATTTGTGGAGAAGATGGACAGGTGGATCCCAACTGTTTCTGTTTGGCACAGGCTGTAGTCTTTAGTGCA
ATGGAGCAAGAGCACTTTAGTGAGTTTCTGCGAAGTACCATTCTGTAATACCAGATTGAAGTGTGCA
CCAGTGGGACTGTTTACCTGGCTGATATTTCTCTCTGTGAGTCAAGCCCTTTTTATTTTTCTGAGTACAT
GGAAAAAGAAGATGCAGTGAATATCTTACAATTCTGGTTGGCAGCGGATAATTTCCAGTCTCAGTTGCT
GCCAAAAAGGGCCAGTATGATGGCAGGAGGCACAGAATGATGCCATGATTTTATATGACAAGTACTTTT
CCCTCCAAGCCACACACCCCTTGGATTTGATGATGTTGTGCGATTAGAAATCGAATCTAATATCTGCAG
GGAAGGTGGGCCACTTCCCTAACTGTTTCAACCCATTACGTGAGGCTGGACAACCATGGAGAAGGTC
TTTTTGCCTGGTTTTCTGTCCAGCAATCTTTATTACAAATATTTGAATGATCTCATCCACTCAGTTCGAG
GAGATGAGTTTCTGGGAGGGAATGTCTCATTGGCTGCTCATGGCTCTGTCTGCCTTCTGAGGAGTCTCA
CTCAGGCGGCTCCGATGGCTCCACTGCTCAGTCTAGTGTGAAAAAGCCAGTATTAATTTCTGAAAAAC
TTTGATGAAGCAATAGTTGTGGATGCTGCAAGCCTGGATCCAGAATCTTTATATCAACGGACATACGCCG
GGAAGATGTCCTTTGGGAGAGTTAGTGACTTGGGGCAGTTCATCCGAGAGTCTGAGCCTGAACCTGATGT
GAAGAAATCGAAAGGATTCATGTTCTCACAAAGCTATGAAGAAGTGGGTGCAAGGAAATACTGATGAGGCC
CAAGAAGAGCTAGCTTGGAAAGATTGCAAAAATGATAGTGAGTGTATGATGCAGCAGGCACACCATGATC
AACCACTAGAGAAGTCTACAAAGCTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR201716 representing NM_001114606
 Red=Cloning site Green=Tags(s)

MRGAGPSPRHSPRALRPDPGPAMSFRRKVKGKEQEKNLDVKSIKASIAVHSPQKSTKNHALLEAAGPSH
 VAINAISANMDSFSSSRATLKKQPSHMEAAHFGLGRSCLDYQTQETKSSLSKTLEQVLRDSVLPYFL
 QFMELRRMEHLVKFWLEAESFHSTTWSRIRAHSLNTVKQSSLAEPVSPSKKQETTASFVTESLDRRLGDS
 SSAPLLLTTQSEGTDLSSRTQNTQNHLLLSQECHSTHSLHHEVARTGTHQISTDSQESSRLAVASRNCS
 SPLRELSEKLMKSI EQDAVNTFTKYISPDAAKPIPI TEAMRNDII AKICGEDGQVDPNCFVLAQAVVFS
 MEQEHFSEFLRSHHFCKYQIEVLTSGTVYLADILFCESALFYFSEYMEKEDAVNILQFWLAADNFQSQLA
 AKKQYDGGQEAQNDAMILYDKYFSLQATHPLGFDDVVRLEIESNICREGGPLPNCFTTPLRQAWTTMEKV
 FLPGLSSNLYYKYLNDLIHSVRGDEFLLGGNVSLAAHGSVCLPEESHSGGSDGSTAQSSVKASIKILKN
 FDEAIVVDAASLDPESLYQRTYAGKMSFGRVSDLGQFIRESEPEPDVKKSKGFMFSQAMKKWVQNTDEA
 QEELAWKIAKMIVSDVMQQAHDQPLEKSTKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

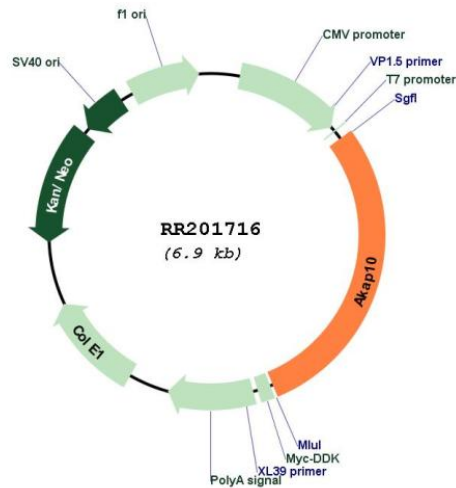
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001114606

ORF Size: 1986 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_001114606.1](#), [NP_001108078.1](#)

RefSeq Size: 3461 bp
RefSeq ORF: 1989 bp
Locus ID: 360540
Cytogenetics: 10q22
MW: 73.8 kDa
Gene Summary: Protein kinase A anchoring protein; involved in in PKA and G protein signal transduction [RGD, Feb 2006]