

Product datasheet for **RR214480**

Akap3 (NM_001005557) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Akap3 (NM_001005557) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Akap3
Synonyms:	MGC93915
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR214480 representing NM_001005557
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGATAGGGTTGACTGGTTACAAAGTCAAAGTGGCGTTTGCAAAGTTGGTGTCTATTCACCTGGAG
 ACAACCAACACCAAGACTGGAAAATGGATTCATCAACAGATCCTGTCCGAGTGCTCAGCTGGCTCCGCAA
 AGACCTGGAGAAAAGTACAGCAGGGTCCAGGACTCGAGGTTCAAGCCTGGAGAATCATATTTGGGGAG
 GAAGTGGCTTACCCAGGAGACCAACGAAAAGTTTCTGCGTTGATTATTACAATACCACCAACAAGGGCA
 ATCCAGGGAGATTGCATTTTGGATGTCTCACAAGGAGACCCCTCCCAGGGCCTCATTGCCCATGTTGG
 TAATGGGGTTCCATAGACGAAGTTTCTTCTACGCCAACCGCTCACAAACCTAGTGATCGCCATGGCC
 CGAAAAGAGATCAATGAGAAGATTCATGGTACTGAAAACAATGTGTCCACCAGTCATTGTATATGGGGG
 ATGATCCACACCCCAAAAAGCTTGAGTACAGTACGTTCTGAGCTCGTGAATGAGACAGTCAGTGCATG
 TTCCAAGAATATTACCGGTGACAAAGCTCCCGCTCTGGAGACAGGGCCTTGGCGTCTTCACAGAGCCCT
 GGTCTAAGATTACAAGCACTCTGAAGATCAAGGAGAGCACGAAGGAAGGCAAGTGTCTGACAACAAGC
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 TGAAGATCCAGGTAAGACACAACCATCGCCACTATTCTGTGAAGAAGGTGTTGATGAAGCATGCAAA
 AGAGGTTGTCTCCGATCTCATCGACTCCTTCATGAAGAACCTCCACAGTGTACAGGGAGTCTCATGACT
 GACACAGACTTCGTCTCAGCTGTGAAGCGAAGTTTTTTTTCTCATGGAAGCCAAAAGCTACAGATATCA
 TGGATGCCATGCTGGCAAGCTATACAATGTGATGTGTGCAAGAAATATCCTGAGAACAACAGGAAAGC
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 TTGAACCTTTCGATGAAATCAGAATCAAAAAGTGAAGAAAATTTGTTTTCTGCATGCATATCAGAGAAA
 AGAAGACATGCGCTGAAACTCTGGGTGAGCACATCATTAAAGGAGGGACTGAACATGTGGCACAAGAGTCA
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 CCGGATCCTTGTGAGGTAACCCCTTTCAGCAACCTCAGCCACCAGAGAAGTTTGAATTTTATGTGTG
 AATCAGACTCCTGGCCAAGGACCTGATTGTATCTGCCCTGCTTCTGATTCAGTACCACCTGGCACAGGG
 AGGAAGGATGGATGCTCAGAGCTTCTGGAAGCCGCCAGCACCAATTTCCACCAAGTCTCTCCT
 GTAGTTATGATGAGGGCAAAGTTAAGTCTCCTCCCTTAAGATATGTGAGCAGGAACAACAGAAAAGA
 AAGATCTGATGAGTGTACCTTCAATTTATCCGGAATTAAGTACTCAGTGAAGCCATATTCAAGGGTAGCCG
 TAATTGTGAGTCCAAGGCTCACGAGCAGATCATTAAAGGAAGAAGAGATCAACCTATGTGAAAGGCCCTCTG
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 CCTTATCTGGGCTAACCAAGATGGTCGCCAACAGCTAGATGGCTGTATGAATGGGCAGATGGTGGAGCA
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 GACACTGTCCAGAACAAGCAGCTGCAAGCTGTCTTTCAGTGGGTGGCTGCCTCAGAGCTCAATGTCCCTA
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 GAAAGGCCGAAGCGTCGGGGAGGTTCTGCACTCGGTGCTTAGGTATGAGAAGGAGCGACAGCTGGATGAG
 GCAGTGGGAAATGTCACGCGGCTGCAGCTGCTGGACTGGCTGATGGCAAACCTG

ACGCGTACGCGGCCGCTCGAGCAGAAAAGTCTCAGAAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR214480 representing NM_001005557
Red=Cloning site Green=Tags(s)

MADRVDWLQSQSGVCKVGVYSPGDNQHQDWKMSSTDPVRVLSWLRKDLEKSTAGFQDSRFKPGESSFGE
EVAYPGDQRKGFCDVYYNTTNKGNPGRHLHFEMSHKETPPQGLIAHVGNNGGSIDEVSFYANRLTNLVIAMA
RKEINEKIHGTENKCVHQSLYMGDDPTPHKSLSTVASELVNETVSACSKNITGDKAPGSGDRALASSQSP
GLRFTSTLKIKESTKEGKCPDNKPGSKKSFYKEVFESRNAGDAKEGGRSLPGDRKLFRCPPDRPDDFSNS
ISQGITMYANSVSDMMVSIMKTLKIQVKDTTIIATILLKKVLMKHAKEVSDLIDFSMKNLHSTVGSMT
DTDFVSAVKRSFFSHGSQKATDAMDAMLGKLYNVCAKKYPENIRKARDKSESYSLISMKSRPGDPKLSN
LNFAMKSESCLKENLFSACISEKEKTCAETLGEHIIKEGLNMWHKSQQNSPGLERATKQGAVPQEVSFEC
PDPCEVNPLQQPQPPENFENFMCESDSWAKDLIVSALLLIQYHLAQGGRMDAQSFLEAAASTNFPTKSSP
VVHDEGKVKSPPLKICEQEOTEKKDLMSVIFNFIRNLLSETIFKGSRNCEKAHEQIIKEEEEINLCERPL
SPCERPMSPVPKFCDEEATGGALSGLTKMVANQLDGCMMNGQMVEHLMDSVMKLCIIAKSCDSPLSEL
GDEKCGDASRPSSAFPDNLYECLPVKGTGTAEALLQNAYLAIHNELRGLSGQPPEGCEIPKVIVSNHNL
DTVQNKQLQAVLQWVAASELNPILYFAGDDEGIQEKLQLSATAVEKGRSVGEVLQSVLRYEKERQLDE
AVGNVTRLQLLDWLMANL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

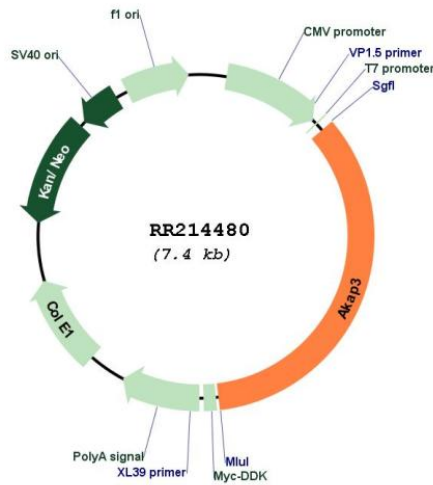
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001005557
ORF Size:	2574 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:	<ol style="list-style-type: none">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_001005557.1 , NP_001005557.1
RefSeq Size:	2889 bp
RefSeq ORF:	2577 bp
Locus ID:	312720
Cytogenetics:	4q42
MW:	94.8 kDa