

Product datasheet for **RC219423**

AP4 (REPIN1) (NM_001099695) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AP4 (REPIN1) (NM_001099695) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AP4
Synonyms:	AP4; RIP60; Zfp464; ZNF464
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC219423 representing NM_001099695
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGATAGGGGTGCTTTTATTACTGCAGTTTTCTCTAACACCTGGGGCTACCGAGTGTGGCCGAA
 GCAGGCGCTGCAGCCCGGAAGTATCCCAAGAACATCCCAAGAGGAGCTGAAAAAGCCTCATCCCCA
 GCTCTGCAGTCTCCAGGCAGAGGAAGAACCAGTCTGGAACGTCGTTGCAGGGGCCCCCTGGCCATGGGC
 CTGGCCAGCCCCGACTCCTTTCTGGGCCCTCCAGGAGTCAACCCAGACCTGGGGAAGGAGTCCCGCG
 GGCTGAGGCAACAAGGCACGTCAGTGGCCAGTCTGGTCCCAAGCCCCAGGCAGGGCCCATCGTGTGC
 CCACTGTCGAAGGCACTCCCTGGCTGGGTGGCTCTGTGGCTTACACCCGCGGTGCCAGGCCCGGCTG
 CCCTTGCCCTGCCCTGAGTGTGGCCGTCGTTTCGCCATGCCCTTCTTAGCACTGCACCGCCAGGTCC
 ATGCTGCTGCCACCCAGACCTGGGCTTTCCTGCCACCTCTGTGGCAGAGTTCGAGGCTGGGTGGC
 CCTGGTTCTGCATCTGCGGGCCATTACAGCTGCAAAGCGGCCATCGCTTGCCAAATGCGAGAGACGC
 TTCTGGCGACAAAGCAGCTTCGAGCTCATCTGCGGGCGGTGCCACCTCCCGCCCCGAGGCCCGGCCCT
 TCATATGCGGCAACTGTGGCCGGAGCTTTCGCCAGTGGGACCAGCTAGTTGCCCAAGCGGGTGCACGT
 AGCTGAGGCCCTGGAGGAGGCCGACGCAAGGCTCTGGGGCCCCGGCCAGGGGCCCGCCCGCGTGACC
 GCCCCCCGGCCGGTGGAGATGCCGTCGACCGCCCTTCCAGTGTGCCTGTTGTGGCAAGCGCTTCCGGC
 ACAAGCCCAACTTGATCGCTCACCGCCGCTGCACACGGGCGAGCGGCCACCAGTGCACCGAGTGCGG
 GAAGCGCTTTACCAATAAGCCCTATCTGACTTCGACCGGCGCATCCACACCGGCGAGAAGCCCTACCCG
 TGCAAAGAGTGCAGCCGCGCTTCCGGCACAACCAACCTGCTGTCTCACAGCAAGATTCACAAGCGAT
 CCGAGGGGTCCGGCCAGGCCGCCCGGCCGGGGAGCCCGAGTCCAGCCGGGCCCCAGGAGTCCGC
 GGCCGAGCCACCCCGGGTACCTCTGAAACCGGCCAGGAGCCGCGCCAGGGGCCCGCCAGAGCAC
 CCGCAGGACCCGATCGAAGCCCCCTCCCTCTACAGCTGCGACGACTGCGGCAGGAGCTTCCGGCTGG
 AGCGCTTCTGCGGGCCACCAGCGGCAGCACACCGGGGAGCGGCCCTTACCTGCGCCGAGTGCGGGAA
 GAATTCGGCAAGAAGACGCACCTGGTGGCGCACTCGCGCTGCACTCCGGCGAGCGGCCCTTCCGCTGC
 GAGGAGTGCAGCCCGCTTCTCCAGGGCAGCCATCTGGCGGCGCATCGGCGGACCACGCCCCCGATC
 GGCCCTTCTGTGTCCCGACTGCGGCAAGGCTTCCGCCACAACCTACCTGGCGGCGCACCGGCGCAT
 CCACACCGGCGAGAAGCCCTACGCTGCCCCGACTGCGGCAAAGCCTTACGCCAGAAGTCCAACCTGGT
 TCGCACCGGCGCATCCACACGGGCGAGCGCCCTACGCTGTCCGACTGCGACCGCAGCTTACGCCAGA
 AGTCCAACCTCATACCCACCGCAAGAGCCACATCCGGGACGGCGCTTCTGCTGTGCCATCTGTGCCA
 GACCTTCGACGACGAGGAGACTCTGGCCACCAGAAGAAGCAGATGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

>RC219423 representing NM_001099695
 Red=Cloning site Green=Tags(s)

MGIGVSLLLQFSLTPGGYRSVGRSRRCSRGSIPRNIIPKRSWKKPHQPQLCSLQAEPEMLERRCRGPLAMG
 LAQPRLLSGPSQESPQLGKESRGLRQQGTSVAQSGAQAPGRAHRCACRRHFPGWVALWLHTRRCQARL
 PLPCPEGRRFRHAPFLALHRQVHAAATPDLGFACHLCGQSFGRWVALVLHLRAHSAAKRPIACPKCERR
 FWRKQLRAHLRRCHPPAPEARPFICGNCGRSFAQWDQLVAHKRVHVAEALAEAAKALGPRPRGRPAVT
 APRPGDAVDRPFQACCGKRFRRHKPNLIAHRRVHTGERPHQCECGKRFNPKPYLTSRRRIHTGEKPY
 CKECRRFRHKPNLLSHSKIHKRSEGSQAAPGPGSPQLPAGPQESAAEPTPAVPLKPAQEPPPGAPPEH
 PQDPIEAPPSLYSCDDGRSFRLEFLRAHQHQHTGERPFTCAECGNFNGKTHLVAHSRVHSGERPFA
 EECRRFSQGSHLAAHRRDHAPDRPFVPCDCGKAFRHKPYLAAHRRRIHTGEKPYVPCDCGKAFSQQSNLV
 SHRRRIHTGERPYACPDGRSFSQSNLITHRSHIRDGAFCCAICGQTFDDEERLLAHQKHDV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8070_c08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001099695

ORF Size: 1872 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_001099695.2](#)

RefSeq Size: 3185 bp

RefSeq ORF: 1875 bp

Locus ID: 29803

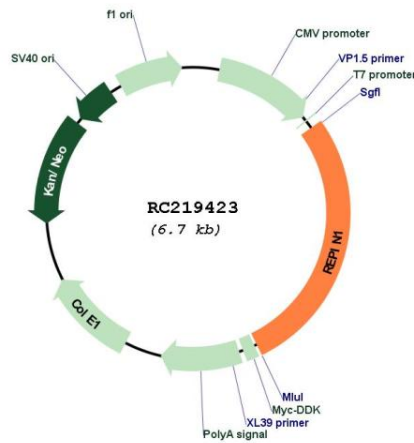
UniProt ID: [Q9BWE0](#)

Cytogenetics: 7q36.1

MW: 69.7 kDa

Gene Summary: Sequence-specific double-stranded DNA-binding protein required for initiation of chromosomal DNA replication. Binds on 5'-ATT-3' reiterated sequences downstream of the origin of bidirectional replication (OBR) and a second, homologous ATT sequence of opposite orientation situated within the OBR zone. Facilitates DNA bending.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC219423