

Product datasheet for **RG200182**

AP4 (REPIN1) (NM_013400) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AP4 (REPIN1) (NM_013400) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AP4
Synonyms:	AP4; RIP60; Zfp464; ZNF464
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200182 representing NM_013400
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGGAACGTGTTGCAGGGGCCCTGGCCATGGGCCTGGCCAGCCCCGACTCCTTCTGGGCCCT
 CCCAGGAGTACCCCAGACCCTGGGAAGGAGTCCCGCGGCTGAGGCAACAAGGCACGTAGTGGCCCA
 GTCTGGTGCCCAAGCCCCAGGCAGGGCCATCGCTGTGCCCACTGTGAAGGCACCTCCCTGGCTGGGTG
 GCTCTGTGGCTTACACCCGCGGTGCCAGGCCCGCTGCCCTTGCCTGCTCTGAGTGTGGCCGTCGCT
 TTCGCCATGCCCCCTTCTAGCACTGCACCGCCAGGTCCATGCTGCTGCCACCCAGACCTGGGCTTTGC
 CTGCCACCTCTGTGGCAGAGCTTCCGAGGCTGGGTGGCCCTGGTTCTGCATCTGCGGGCCATTAGCT
 GCAAAGCGGCCCATCGCTTGTCCAAATGCGAGAGACGCTTCTGGCGACGAAAGCAGCTTCGAGCTCATC
 TGCGGCGGTGCCACCCTCCGCCCGGAGGCCCGCCCTCATATGCGGCAACTGTGGCCGGAGCTTTGC
 CCAGTGGGACCAGCTAGTTGCCACAAGCGGGTGCACGTAGCTGAGGCCCTGGAGGAGGCCGAGCCAAG
 GCTCTGGGGCCCGGCCAGGGGCCCGCCCGCGGTGACCGCCCCCGGCCCGGTGGAGATGCCGTCGACC
 GCCCTTCCAGTGTGCCTGTTGTGGCAAGCGCTTCCGGCAACAAGCCAACTTGATCGCTACCGCCGCGT
 GCACACGGGCGAGCGGCCACCAGTGCCCGAGTGCGGGAAGCGCTTTACCAATAAGCCATATCTGACT
 TCGCACCGGCGCATCCACACCGGCGAGAAGCCCTACCCGTGCAAAGAGTGCAGGCCCGCTTCCGGCACA
 AACCCAACCTGCTGTCTCACAGCAAGATTCACAAGCGATCCGAGGGGTGCGCCAGGCCGCCCGCCCGGCC
 GGGGAGCCCCAGCTGCCAGCGGCCCCAGGAGTCCCGGCGGAGCCACCCCGCGGTACCTCTGAAA
 CCGGCCAGGAGCCGCCAGGGGCCCGCAGAGCACCCGAGACCCGATCGAAGCCCCCCCCCTCCC
 TCTACAGCTGCGACGACTGCGGAGGAGCTTCCGGTGGAGCGCTTCTGCGGGCCACCAGCGGCAGCA
 CACCGGGGAGCGGCCCTTCACTGCGCCGAGTGCAGGGAAGAACTTCGGCAAGAAGACGCACCTGGTGGCG
 CACTCGCGCTGCACTCCGGCGAGCGCCCTTCGCCTGCGAGGAGTGCAGGCCCGCTTCTCCAGGGCA
 GCCATCTGGCGGCGCATCGGCGGACCACGCCCGATCGGCCCTTCTGTGTCCCGACTGCGGCAAGGC
 CTTCCGCCACAAACCCTACCTGGCGGCGCACCGGCGCATCCACACCGGCGAGAAGCCCTACGCTGCCCC
 GACTGCGGCAAAGCCTTACGCCAGAAGTCCAACCTGGTGTGCGACCGGCGCATCCACAGGGCGAGCGGC
 CCTACGCTGTCCGACTGCGACCGCAGCTTACGCCAGAAGTCCAACCTCATACCCACCGCAAGAGCCA
 CATCCGGGACGGCGCTTCTGCTGTGCCATCTGTGGCCAGACCTCGACGACGAGGAGACTCCTGGCC
 CACCAGAAGAAGCACGATGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG200182 representing NM_013400
 Red=Cloning site Green=Tags(s)

MLERRCRGPLAMGLAQPRLLSGPSQESPQTLGKESRGLRQQGTSVAQSGAQAPGRAHRCACRRHFPGWV
 ALWLHTRRCQARLPLPCSECGRFRHAPFLALHRQVHAAATPDLGFACHLCGQSFQWVALVHLRAHSA
 AKRPIACPKCERRFWRRKQLRAHLRRCHPPAPEARPFICGNCGRSFAQWDQLVAHKRVHVAEAL EAAAK
 ALGPRPRGRPAVTAPRPGDAVDRPFQACCGKRFHKNL IAHRRVHTGERPHQCPEGKRF TNKPYLT
 SHRRIHTGEKPYPCKEGRRFRHKNLLSHSKIHKRSEGSQAAPGPGSPQLPAGPQESAAEPTPAVPLK
 PAQEPPPAPPEHPQDPIEAPPSLYSCDDCGRSFRLERFLRAHQHQHTGERPFTCAECGKNFGKTHLVA
 HSRVHSGERPFACEEGRRF SQSHLAHRRDHAPDRPFVCPDCGKAFRHKPYLAHRRRIHTGEKPYVCP
 DCGKAFS QKSNLVSHRRIHTGERPYACPD CDRSF S QKSNLITHRKS HIRIDGAFCCAICGQTFDDEERLLA
 HQKKHDV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_013400

ORF Size: 1701 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_013400.1](#), [NP_037532.1](#)

RefSeq Size: 2954 bp

RefSeq ORF: 1704 bp

Locus ID: 29803

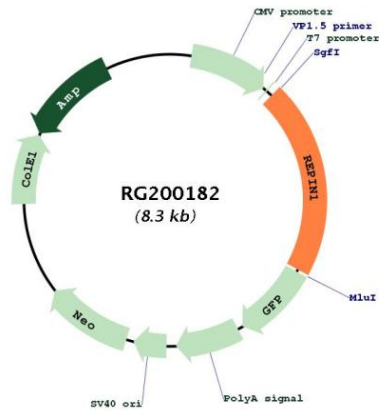
UniProt ID: [Q9BWE0](#)

Cytogenetics: 7q36.1

Domains: zf-C2H2

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 RG200182