

Product datasheet for **RG201848**

AP4 (REPIN1) (NM_014374) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AP4 (REPIN1) (NM_014374) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	REPIN1
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:

>RG201848 representing NM_014374
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCTGGCCAGCCCGACTCCTTTCTGGCCCTCCAGGAGTCACCCAGACCCTGGGAAGGAGT
 CCCGCGGCTGAGGCAACAAGGCACGTAGTGGCCAGTCTGGTGCCCAAGCCCCAGGCAGGCCATCG
 CTGTGCCACTGTGCAAGGCACTTCCCTGGCTGGGTGGCTCTGTGGCTTACACCCGCGGTGCCAGGCC
 CGGCTGCCCTTGCCTGCCTGAGTGTGGCCGTCGCTTTCGCCATGCCCCCTTCTAGCACTGCACCGCC
 AGGTCCATGCTGCTGCCACCCAGACCTGGGCTTTCCTGCCACCTCTGTGGCAGAGCTTCCGAGGCTG
 GGTGGCCCTGGTCTGCATCTGCGGGCCATTAGCTGCAAAGCGGCCATCGCTTGTCCAAATGCGAG
 AGACGCTTCTGGCGACGAAAGCAGCTTCGAGCTCATCTGCGGCGGTGCCACCCTCCGCCCCGAGGCC
 GGCCCTTCATATCGGCAACTGTGGCCGAGCTTTCAGTGGGACCAGCTAGTTGCCACAAGCGGT
 GCACGTAGCTGAGGCCCTGGAGGAGCCGACGCAAGGCTCTGGGGCCCCGGCCAGGGGCCGCCCGCG
 GTGACCGCCCCCGGCCGGTGGAGATGCCGTCGACCGCCCTTCCAGTGTGCCTGTTGTGGCAAGCGCT
 TCCGGCACAAGCCCAACTTGATCGCTCACCGCCGCTGCACACGGGCGAGCGGCCACCAGTGCCCGGA
 GTGCGGAAGCGCTTACCAATAAGCCCTATCTGACTTCGACCGGCGCATCCACACCGGCGAGAAGCCC
 TACCCGTGCAAAGAGTGCAGGCCGCGCTTCCGGCACAACCCAACTGCTGTCTCACAGCAAGATTACA
 AGCGATCCGAGGGGTCCGCCAGGCCGCCCGGGCCGGGAGCCCCAGCTGCCAGCGGCCGCCAGGA
 GTCCGCGGCCGAGCCACCCGGCGGTACCTCTGAAACCGGCCAGGAGCCGCCAGGGGCCGCCGCA
 GAGCACCCGACGAGCCGATCGAAGCCCCCTCCCTCTACAGCTGCGACGACTGCGGCAGGAGCTTCC
 GGCTGGAGCGCTTCTGCGGGCCACCAGCGGACACCGGGGAGCGGCCCTCACCTGCGCCGAGTG
 CGGAAGAAGACTTCGGCAAGAAGACGCACCTGGTGGCGCACTCGCGGTGCACTCCGGCGAGCGGCCCTT
 GCCTGCGAGGAGTGGGCGCGCTTCTCCAGGGCAGCCATCTGGCGGCGCATCGGCGGACACGCCCC
 CCGATCGGCCCTTCTGTGTCCGACTGCGGCAAGGCCTTCCGCCACAACCCCTACCTGGCGGCGCACCG
 GCGCATCCACACCGGCGAGAAGCCCTACGTCTGCCCGACTGCGGCAAAGCCTTACGCCAGAAGTCCAAC
 CTGGTGTGCGACCGGCGCATCCACACGGGCGAGCGGCCCTACGCCTGTCCGACTGCGACCGCAGCTTCA
 GCCAGAAGTCCAACCTCATACCCACCGCAAGAGCCACATCCGGGACGGCGCCTTCTGCTGTGCCATCTG
 TGCCAGACCTTCGACGACGAGGAGACTCCTGGCCACCAGAAGAAGCAGATGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG201848 representing NM_014374
 Red=Cloning site Green=Tags(s)

MGLAQPRLLSGSPQESPQTLGKESRGLRQQGTSVAQSGAQAPGRAHRCACHRRHFPGWVALWLHTRRCQA
 RLPLPCPECGRFRHAPFLALHRQVHAAATPDLGFACHLCGQSFRGWVALVLHLRAHSAKRPIACPKE
 RRFWRKQLRAHLRRCHPPAPEARPFICGNCGRSFAQWDQLVAHKRVHVAEAL EEAALKGPRPRGPA
 VTAPRPGDAVDRPFQACCGKFRHKNPLIAHRRVHTGERPHQCPECGRFTNKPYLTSRRRIHTGEKP
 YPCKEGRFRHKNPLLSHSKIHKRSESAQAAPGPGSPQLPAGPQESAAEPTAVPLKPAQEPPPGAPP
 EHPQDPIEAPPSLYSCDDCGRSFLERFLRAHQHQHTGERPFTCAECGNFNGKTHLVAHSRVHSGERPF
 ACEECGRRFSQGSHLAAHRRDHAPDRPFVCPDCGKAFRHKPYLAAHRRRIHTGEKPYVCPDCGKAFSQKSN
 LVSHRRRIHTGERPYACPDGRSFSQKSNLITHRSHIRDFCAICGQTFDDEERLLAHQKKHDV

TRTRPLE - GFP Tag - V

Restriction Sites:

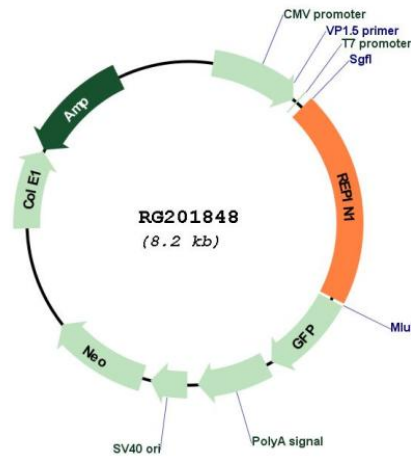
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_014374
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:	<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_014374.3 , NP_055189.2
RefSeq Size:	2894 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]