

Product datasheet for **RC205112**

RAP1 (TERF2IP) (NM_018975) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAP1 (TERF2IP) (NM_018975) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RAP1
Synonyms:	DRIP5; RAP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205112 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGAGGCGATGGATTTGGGCAAAGACCCCAACGGGCCACCCATTCTCGACTCTGTTCTGTGAGGG
ACGACGGCAGCTCCATGTCCTTCTACGTGCGGCCAGCCCGCCAAGCGTCGGCTGTCGACGCTCATCT
GCACGGCGGGCGCACCGTGTGCCGAGTGCAGGAGCCCGGGCCGTGCTGTCGGCCAGCCCGGGGAGGCG
CTGGCCGAGGCCCTCGGGTATTTTCATCTCCACGCAGTACATCCTGGACTGCGTGGAGCGCAACGAGAGGC
TGGAGCTGGAGGCCATATCGGCTGGGCCCGCCTCGGCGGCGACACCGGCTCGGAAGCAAAGCCCGGGC
CCTGGCCGAGGGCGCCGCGGAGCCGAGCCGACGCGGCACGCGGGCGGATCGCCTTACGGATGCGGAC
GACGTAGCCATCCTTACCTACGTGAAGGAAAATGCCCGCTCGCCAGCTCCGTCACCGGTAAACGCTTGT
GGAAAGCGATGGAGAAGAGCTCGCTCACGCAGCACTCGTGGCAGTCCCTGAAGGACCGCTACCTCAAGCA
CCTGCGGGGCCAGGAGCATAAGTACCTGCTGGGGACGCGCCGGTGGAGCCCTCTCCAGAAGCTCAAG
CGGAAGGCGGAGGAGGACCCGGAGGCCGCGATAGCGGGGAACACAGAATAAGAGAAGTCCAGATTTGC
CTGAAGAAGAGTATGTGAAGGAAGAAATCCAGGAGAATGAAGAAGCAGTCAAAAAGATGCTTGTGGAAGC
CACCCGGAGTTTGAGGAGGTTGTGGTGGATGAGAGCCCTCCTGATTTTGAATAACATAACTATGTGT
GATGATGATCCACCCACACCTGAGGAAGACTCAGAAACACAGCCTGATGAGGAGGAAGAAGAAGAAGA
AAAAAGTTTCTCAACCAGAGGTGGGAGCTGCCATTAAGATCATTGCGCAGTTAATGGAGAAGTTAACTT
GGATCTATCAACAGTTACACAGGCCTTCTAAAAAATAGTGGTGAAGCTGGAGGCTACTTCCGCCTTCTTA
GCGTCTGGTCAGAGAGCTGATGGATATCCATTTGGTCCCACAAGATGACATAGATTTGCAAAAAGATG
ATGAGGATACCAGAGAGGCATTGGTCAAAAAATTTGGTCTCAGAATGTAGCTCGGAGGATTGAATTTCC
AAAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC205112 protein sequence
Red=Cloning site Green=Tags(s)

MAEAMDLGKDPNGPHTSSTLFVRRDGGSSMSFYVRPSPAKRRLSTLILHGGGTVCRVQEPGAVLLAQPGEA
 LAEASGDFISTQYILDCVERNERLELEAYRLGPASAADTGSEAKPGALAEAAEPEPQRHAGRIAFDAD
 DVAILTYYKENARSPSSVTGNALWKAMEKSSLTQHSWQSLKDRYLKHLRGQEHKYL LGDAPVSPSSQKLL
 RKAEDPEAADS GEPQNKRTDLP EEEYVKEEIQENEEAVKKMLVEATREFEEVVVDESPPDFEIHITMC
 DDDPPTPEEDSETQPDEEEEEEEKVSQPEVGAAIKIIRQLMEKFNLDLSTVTQAF LKNSGELEATSAFL
 ASGQRADGYPIWSRQDDIDLQKDDDETREALVKKFGAQNVARRIEFRKK

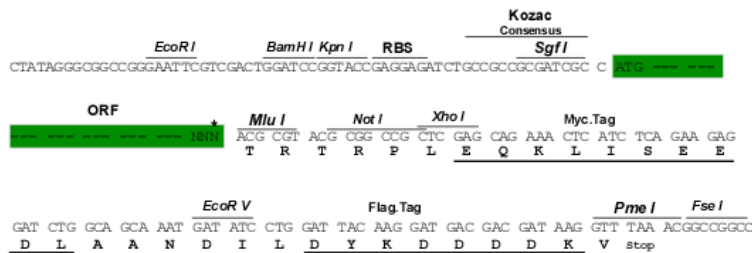
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6067_e02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_018975

ORF Size: 1197 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_018975.4](#)

RefSeq Size: 2196 bp

RefSeq ORF: 1200 bp

Locus ID: 54386

UniProt ID: [Q9NYB0](#)

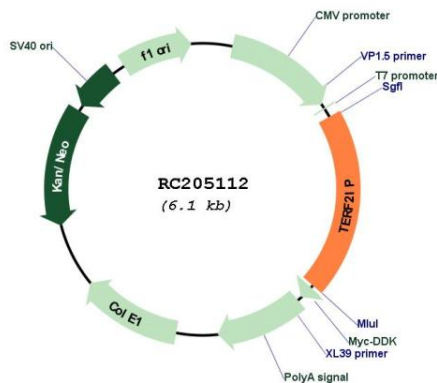
Cytogenetics: 16q23.1

Protein Families: Transcription Factors

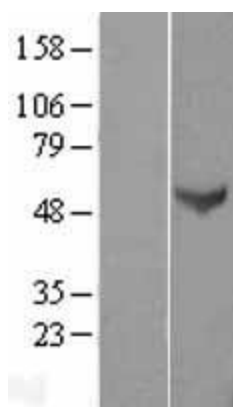
MW: 44.3 kDa

Gene Summary: The gene encodes a protein that is part of a complex involved in telomere length regulation. Pseudogenes are present on chromosomes 5 and 22. [provided by RefSeq, Apr 2010]

Product images:



Circular map for RC205112



Western blot validation of overexpression lysate (Cat# [LY402720]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205112 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).