

Product datasheet for **RG204381**

PTOP (ACD) (NM_001082486) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTOP (ACD) (NM_001082486) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PTOP
Synonyms:	PIP1; PTOP; TINT1; TPP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG204381 representing NM_001082486
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCTGGCCGCTGTGACAGTACGCCGCGATGAGAGTAAACGGGCCAGCATCCCCTGCACCAGCGGGT
 GGACCAGCGGGAGTCTGCACACAGGCCCCGAGCAGGACGCCCTCGTGCCAGGCCGCGGGGTGTAGGTGG
 GCGGGGCTCCTCCTCCGGCCCCGCCAGCAAGGAGTTCCTCTCCGAGGAAAGCGGGGCTGGGCG
 CCCGCGGAAACCCGGGCCGTTGCATCCGCTGGGTGTAGCCGTGGGATGGCAGGTTCCGGGAGGCTGG
 TCCTACGGCCCTGGATTCGGGAGCTGATTCTGGGGTACAGACACCCTCCAGTCCACGAGCCGGGACGT
 GCTTGAGTACTACAGGACGCCGAGGCCGCGGTGCGGGGCCATCCCACGCCCTGATACGTCGACGTC
 GGGGCCACGCTGCTTGTGTCTGACGGGACCCACAGTGTCCGATGCCTGGTACGCGGGAGGCCCTGGACA
 CCTCGGACTGGGAGGAGAAGGAGTTCGGCTTCCGCGGGACAGAGGGCCGGCTGCTGCTGCAGGACTG
 CGGGTTCATGTCCAGGTCGCTGAGGGCGCGCCCGCAGAGTCTATCTCCAGGTGGACCGCTTCAGC
 CTGCTGCCACGGAGCAGCCCCGGCTACGGGTGCCTGGTTGCAACCAAGACTTAGATGTTCAAAAAAGC
 TCTATGACTGCCTTGAGGAGCACCTTTCAGAGTCCACCTCGTCCAATGCAGGCCATCACTGTCCCAGCT
 TCTGGATGAAATGCGGGAGGACCAGGAGCATCAGGGGGCACTCGTGTGCCTGGTGAAAGCTGCCTGACA
 CTGGAGGGCCCTTGCACAGCACCCCTGTACCCACTGGGCTGCCTCACGATGCAAGGCCACGGGAGAAG
 CTGTGTACACTGTCCCAGCTCAATGCTGTGCATCTCTGAGAATGACCAGCTAATTCTGAGCTCTTAGG
 CCCCTGTACAGGACACAGGGCCCTGAGCTGCCCCACCAGACCCGGCTTCGACGACCTATCTGACC
 CTCATAGCCTCTCCTCCTCCTCACCCAGTTCCTCAGAAACCCCGCCTTACCCGGCCACATGTCATCCG
 AGGAAAGTGGTACCAGCATCAGCCTTCTGCCTGCCCTGTCTTGGCTGCTCCAGACCCAGGGCAGAGAAG
 CAGCTCCCAGCCCTCACAGCCATCTGCTCAGCCCTGCCACCCTGACCCCAAGTCCCCACAGCCAGC
 CGTACCCCAAGCTCCCCACTCCAGAGTGCCTCCAGTCTCTCACCCCGTAGCCATGTCCCAGTCCAC
 ACCAGGCTCTTGTGACCAGGCCAGAAACCTAGCCTGGAGTCAAGGAGTTTGTAGGGTGGCCTGCAA
 GAATCGGCCGCTTTTCCAGGACCGGAGCTACCAGGGGAGCCAGGAGCCCTGCTGTCTGGAAACCC
 CCAAAGAGGCATCGTATGGTTCTGCCTCCAGTATGAGTATGAGCCACCCTGCACGTCCTCTGTGCTC
 GGGTCAAAGCTGCCAGGCTTCTCCCCAGCTCATGGCTGGGCTTGCACTTTCTGATGGATGCACAGCC
 AGGTCTGAGCCAACCTCCGATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG204381 representing NM_001082486
 Red=Cloning site Green=Tags(s)

MPGRCQSDAAMRVNGPASRAPAGWTSGLHTGPRAGRPRPRAQARGVRRGRLLRPRPAKELPLPRKGGAWA
 PAGNPGPLHPLGVAVGMAGSGRLVLRPWIRELILGSETPSSPRAGQLLEVLQDAEAAVAGPSHAPDTSV
 GATLLVSDGTHSVRCLVTREALDTSWEEKFEGFRGTEGRLLLLQDCGVHVQVAEGGAPAEFYLVDRFS
 LLPTEQPRLRVPGCNQDLDVQKKLYDCLLEHLSESTSSNAGLSLSQLLDEMREDQEHQGLVCLAESCLT
 LEGPCTAPPVTHWAASRCKATGEAVYTPSSMLCISENDQLILSSLGPCQRTQGPELPPDPALQDLSLT
 LIASPPSSPSSGTPALPGHMSSEESGTSISLLPALSLAAPDPGQRSSSQPSAICSAPATLTPRSPHAS
 RTPSSPLQSCTPSLSPRSHVPSPHQALVTRPQKPSLEFKEFVGLPCKNRPPFPRTGATRGAQEPCSVWEP
 PKRHRDGSADFQYEYPPCTSLCARVQAARLPQLMAWALHFLMDAQPGESEPTM

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001082486

ORF Size: 1632 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_001082486.1](#), [NP_001075955.1](#)

RefSeq Size: 2095 bp

RefSeq ORF: 1377 bp

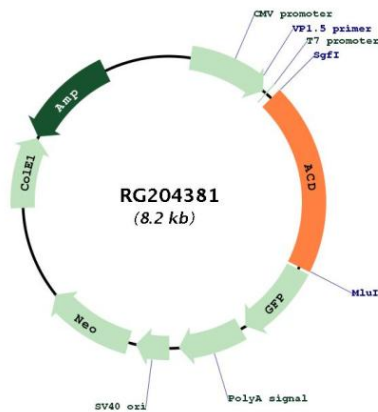
Locus ID: 65057

UniProt ID: [Q96AP0](#)

Cytogenetics: 16q22.1

Gene Summary: This gene encodes a protein that is involved in telomere function. This protein is one of six core proteins in the telosome/shelterin telomeric complex, which functions to maintain telomere length and to protect telomere ends. Through its interaction with other components, this protein plays a key role in the assembly and stabilization of this complex, and it mediates the access of telomerase to the telomere. Multiple transcript variants encoding different isoforms have been found for this gene. This gene, which is also referred to as TPP1, is distinct from the unrelated TPP1 gene on chromosome 11, which encodes tripeptidyl-peptidase I. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG204381