

Product datasheet for **RG212674**

PTOP (ACD) (NM_001082487) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTOP (ACD) (NM_001082487) 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:

>RG212674 representing NM_001082487
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCTGGCCGCTGTGACAGTACGACCGCGATGAGAGTAAACGGGCCAGCATCCCCTGCACCAGCGGGT
 GGACCAGCGGGAGTCTGCACACAGGCCCCGAGCAGGACGCCCTCGTGCGCAGGCCGCGGGGTGTAGGTGG
 GCGGGGCTCCTCCTCCGGCCCCGCCAGCAAGGAGTTCCTCTCCGAGGAAAGCGGGGCTGGGCG
 CCCGCGGAAACCGGGCCGTTGCATCCGCTGGGTGTAGCCGTGGGATGGCAGGTTCCGGGAGGCTGG
 TCCTACGGCCCTGGATTCGGGAGCTGATTCTGGGGTACAGACACCCTCCAGTCCACGAGCCGGGACGT
 GCTTGAGGACGCCGAGGCCGCGGTGCGGGGCCATCCCACGCCCTGATACGTCCGACGTGCGGGCCACG
 CTGCTTGTGTCTGACGGGACCCACAGTGTCCGATGCCTGGTGACGCGGGAGGCCCTGGACACCTCGGACT
 GGGAGGAGAAGGAGTTCGGCTTCCGCGGACAGAGGGCCGGCTGTGCTGCTGCAGGACTGCGGGTTCA
 TGTCCAGGTCGCTGAGGGCGGCGGCCCGCAGAGTTCTATCTCCAGGTGGACCGTTCAGCTGCTGCC
 ACGGAGCAGCCCCGGCTACGGGTGCCTGGTTGCAACCAAGACTTAGATGTTCCAGAAAAAGCTCTATGACT
 GCCTTGAGGAGCACCTTTCAGAGTCCACCTCGTCCAATGCAGGCCTATCACTGTCCCAGCTTCTGGATGA
 AATGCGGGAGGACCAGGAGCATCAGGGGCACTCGTGTGCTGGCTGAAAGCTGCCTGACACTGGAGGGC
 CCTTGACAGCACCCCTGTCAACCCACTGGGCTGCCTCAGATGCAAGGCCACGGGAGAAGCTGTGTACA
 CTGTCCCAGCTCAATGTGTGCATCTCTGAGAATGACCAGCTAATTCTGAGCTCTCTAGGCCCTGTCA
 GAGGACACAGGGCCCTGAGTGCCTCCACAGACCCGGCTCTGCAGGACCTATCTCTGACCTCATAGCC
 TCTCCTCCTTCTCACCCAGTTCCTCAGGAACCCCGGCTTACCCGGCCACATGTATCCAGGAAAGTG
 GTACCAGCATCAGCCTTCTGCCTGCCCTGTCTTGGCTGCTCCAGACCCAGGGCAGAGAAGCAGCTCCCA
 GCCCTCACAGCCATCTGCTCAGCCCTGCCACCTGACCCCAAGTCCCAACAGCCAGCCGATACCCCC
 AGCTCCCACTCCAGAGCTGCACTCCCAGTCTCTCACCCGATGCCATGTCCCAGTCCACACCAGGCTC
 TTGTGACCAGGCCCCAGAACTAGCCTGGAGTCAAGGAGTTTGTAGGGTTGCCCTGCAAGAATCGGCC
 GCCTTTTCCAGGACCGGAGCTACCAGGGGAGCCAGGAGCCCTGCTGTCTGTGATGAGTATGAGCCA
 CCCTGCACGTCCCTCTGTGCTCGGTCCAAGCTGTGAGGCTTCTCCCACTCATGGCTGGGCTTGC
 ACTTCTGATGGATGCACAGCCAGGCTGTGAGCCAACCTCCGATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG212674 representing NM_001082487
 Red=Cloning site Green=Tags(s)

MPGRCQSDAAMRVNGPASRAPAGWTSGLHTGPRAGRPRQAQARGVVRGRLLRPRPAKELPLPRKGGAWA
 PAGNPGPLHPLGVAVGMAGSGRLVLRPWIRELILGSETPSSPRAGQLLEDAEAAVAGPSHAPDTSVVGAT
 LLVSDGTHSVRCLVTREALDTSWEEKEFGFRGTEGRLLLLQDCGVHVQVAEGGAPAEFYLVQVDRFSLLP
 TEQPRLRVPGCNQDLVDVQKLYDCLEEHLSESTSSNAGLSLSQLLDEMREDQEHQGALVCLAESCLTLEG
 PCTAPPVTHWAASRKATGEAVYVTPSSMLCISENDQLILSSLGPCQRTQGPELPPDPALQDLSLTLIA
 SPPSSPSSGTPALPGHMSSEESGTSISLLPALSLAAPDPGQRSSQPSAICSAPATLTPRSPHASRTP
 SSPLQSCTPSLSPRSHVPSPHQALVTRPQKPSLEFKEFVGLPCKNRPPFPRTGATRGAQEPCSVWYIEYEP
 PCTSLCARVQAVRLPPQLMAWALHFLMDAQPGSEPTM

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001082487

ORF Size: 1584 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:

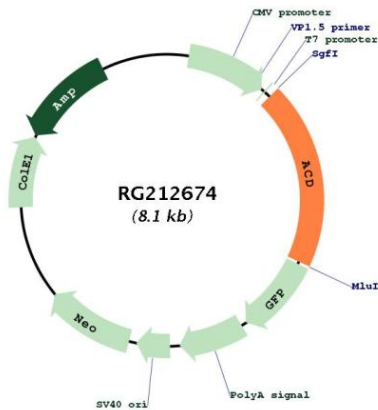
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_001082487.1](#), [NP_001075956.1](#)

RefSeq Size: 2047 bp
 RefSeq ORF: 1587 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 RG212674