

Product datasheet for **SC122937**

PTOP (ACD) (NM_022914) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTOP (ACD) (NM_022914) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTOP
Synonyms:	PIP1; PTOP; TINT1; TPP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_022914 edited
 AAGGAAGTACCATTTATTTAGCGCTGTGTGTGCTCTTATTTCCACTGGCCTTACAAGA
 CCGTGCACTGTGTAGATGAGGAACTGAGTCATAATAAATATGTGCTGAACCGTTCGGGG
 GTCACACGGTGTGAAATGGTTTCGAGTCAACTCGCTCGGACGGCACTCGGCCTCAGCCT
 CCGGCCCTGGAACCTCTCCAGGGACGGGACCAGCCCTTGTCTGTTCCCTACCGGTACC
 ACAGGAATCTTGACGAACGGCCAAATGCCTGGCCGCTGTAGAGTGACGCCGCGATGAG
 AGTAAACGGGGCCAGCATCCCGTGCACACGGGGTGGACCAGCGGGAGTGTGCACACAGG
 CCCCCGAGCAGGACGCCCTCGTGCAGGCGCGGGGTGTACGTGGCGGGGCCTCCTCCT
 CCGGCCCGCCAGCAAGGAGCTTCTCTTCCGAGGAAAGCGGGGCCTGGGCGCCCGC
 GGGAAACCGGGCCCGTTGCATCCGCTGGGTGTAGCCGTGGGGATGGCAGGTTCCGGGAG
 GCTGGTCTACGGCCCTGGATTCGGGAGCTGATTCTGGGGTACAGACACCCTCCAGTCC
 ACGAGCCGGGACGCTGCTTGGTACTACAGGACGCCGAGGCCGCGGTGCGGGGCCATC
 CCACGCCCTGATACGTCCGACGTGGGGCCACGCTGCTGTGTCTGACGGGACCCACAG
 TGTCCGATGCCTGGTACGCGGGAGGCCCTGGACACCTCGGACTGGGAGGAGAAGGAGTT
 CGGCTTCCGCGGGACAGAGGGCCGGCTGCTGCTGTCAGGACTGCGGGGTTTCATGTCCA
 GGTGCTGAGGGCGGCGCCCGCAGAGTTCTATCTCCAGGTGGACCGCTTCAGCCTGCT
 GCCCACGGAGCAGCCCCGGCTACGGGTGCCTGGTTGCAACCAAGACTTAGATGTTCAAGAA
 AAAGCTCTATGACTGCCTTGAGGAGCACCTTTCAGAGTCCACCTCGTCCAATGCAGGCCT
 ATCACTGTCCCAGCTTCTGGATGAAATGCGGGAGGACCAGGAGCATCAGGGGGCACTCGT
 GTGCTGGCTGAAAGCTGCCTGACACTGGAGGGCCCTTGACACAGACCCCTGTCAACCA
 CTGGGCTGCCTCACGATGCAAGGCCACGGGAGAAGCTGTGTACTGTCTCCAGCTCAAT
 GCTGTGCATCTCTGAGAATGACCAGCTAATTCTGAGCTCTTAGGCCCTGTGAGAGGAC
 ACAGGCCCTGAGCTGCCCCACAGACCCGGCTCTGCAGGACCTATCTGTGACCTCAT
 AGCCTCTCTCCTCCTCACCCAGTTCTCAGGAACCCCGCCTTACCCGGCCACATGTC
 ATCCGAGGAAAGTGGTACCAGCATCAGCCTTCTGCCTGCCTGTCTTGGCTGCTCCAGA
 CCCAGGGCAGAGAAGCAGCTCCCAGCCCTCACCAGCCATCTGCTCAGCCCTGCCACCCT
 GACCCCGAGTCCCACACGCCAGCCGTACCCCGAGTCCCAGTCCAGAGCTGCACTCC
 CAGTCTCTACCCCGTAGCCATGTCCCAGTCCACACCAGGCTCTTGTGACCAGGCCCCA
 GAAACCTAGCCTGGAGTTCAAGGAGTTTGTAGGGTTGCCCTGCAAGAATCGGCCGCTTT
 TCCCAGGACCGGAGCTACCAGGGGAGCCAGGAGCCCTGCTGTCTGGGAACCCCCAAA
 GAGGCATCGTGATGGTTCTGCCTCCAGTATGAGTATGAGCCACCCTGCACGTCCCTCTG
 TGCTCGGGTCCAAGCTGCCAGGCTTCTCCCCAGCTCATGGCCTGGGCCTTGCACTTTCT
 GATGGATGCACAGCCAGGCTCTGAGCAACTCCGATGTGAGACGTACCGCAGGACAGATA
 CCGCTCCACACTGCTTCTTTGAGTTTTTAATAAAATAATCTCATGCGGCAAAAAA
 AAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_022914 unedited
 TCACTATAGGGCGCCGCGCATTCCCGGATATCGTCGACCCACGCTCCGAAGAAGTAC
 CATTTATTTAGCGCTGTGTGTGCTCTTATTTCCACTGGCCTTACAAGACCGTGCAGTG
 TGTAGATGAGGAACTGAGTCATAATAAATATGTGCTGAACCGTTCGGGGTACACCGT
 GCTGAAATGGTTTCGAGTCAACTCGCTCGGACGGCACTCGGCCTCAGCCTCCGGCCCTGG
 AACCTCTCCAGGGACGGGACCAGCCCTTGTCTGTTCCCTACCGGTACCACAGGAATCT
 TGACGAACGGCCAAATGCCTGGCCGCTGTAGAGTGACGCCGCGATGAGAGTAAACGGG
 CCAGCATCCCGTGCACACGGGGTGGACCAGCGGGAGTCTGCACACAGGCCCCGAGCA
 GGACGCCCTCGTGCAGGCGCGGGGTGTACGTGGCGGGGCCTCCTCCTCCGGCCCCGC
 CCAGCGAAGGAGCTTCTCTTCCGAGGAAAGCGGGGCCTGGGCGCCCGGGGAAACCCG
 GGCCCGTTGCATCCGCTGGGTGTAGCCGTGGGGATGGCAGGTTCCGGGAGGCTGGTCTTA
 CGGCCCTGGATTCGGGAGCTGATTCTGGGGTACAGACACCCTCCAGTCCACGAGCCGGG
 CAGCTGCTTGGTACTACAGGACGCCGAGGCCGCGGTGCGGGGCCATCCCACGCCCT
 GATACGTCCGACGTGNGGGCCACGCTGCTGTGTCTGACGGGACCCACAGTGTCCGATGC
 CTGGTACGCGGGAGGCCCTGGACACCTCGGACTGGGAGGAGAAAGAGTTCGGCTTCCGC
 GGGACAGAGGCCNGCTG

Restriction Sites:	Please inquire
ACCN:	NM_022914
Insert Size:	2000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_022914.1 , NP_075065.1
RefSeq Size:	2034 bp
RefSeq ORF:	1626 bp
Locus ID:	65057
UniProt ID:	Q96AP0
Cytogenetics:	16q22.1
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1, resulting in a shorter protein (isoform 2). CCDS Note: This CCDS was updated to trim the coding region at the 5' end, which shortens the N-terminus of the protein by 86 amino acid residues. The update is supported by conservation data.</p>