**Product datasheet for SC316007**

**PTOP (ACD) (NM_001082486) Human Untagged Clone**

**Product data:**

<table>
<thead>
<tr>
<th>Product Type:</th>
<th>Expression Plasmids</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name:</td>
<td>PTOP (ACD) (NM_001082486) Human Untagged Clone</td>
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<tr>
<td>Tag:</td>
<td>Tag Free</td>
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<tr>
<td>Symbol:</td>
<td>ACD</td>
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<td>Synonyms:</td>
<td>PIP1; PTOP; TINT1; TPP1</td>
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<td>Vector:</td>
<td>pCMV6-XL5</td>
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<tr>
<td>E. coli Selection:</td>
<td>Ampicillin (100 ug/mL)</td>
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<tr>
<td>Cell Selection:</td>
<td>None</td>
</tr>
</tbody>
</table>
Fully Sequenced ORF: >OriGene sequence for NM_001082486 edited

Restriction Sites: Please inquire

ACCN: NM_001082486

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).

OTI Annotation: The ORF of this clone has been fully sequenced and found to contain one SNP compared with NM_001082486.1.

RefSeq: NM_001082486.1, NP_001075955.1

RefSeq Size: 2095 bp
**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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). 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.