

Product datasheet for **SC323772**

TCTP (TPT1) (NM_003295) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TCTP (TPT1) (NM_003295) Human Untagged Clone
Tag:	Tag Free
Symbol:	TCTP
Synonyms:	HRF; p02; p23; TCTP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<p>>OriGene sequence for NM_003295.1</p> <pre> CCCCTCCCCCGAGCGCCGCTCCGGTGCACCGCGCTCGTCCGAGTTTCAGGCTCGTGC TAAGCTAGCGCCGTCGTCTCCCTTCAGTCGCCATCATGATTATCTACCGGGACCTCA TCAGCCACGATGAGATGTTCTCCGACATCTACAAGATCCGGGAGATCGCGGACGGTTGT GCCTGGAGGTGGAGGGAAGATGGTCAGTAGGACAGAAGGTAACATTGATGACTCGCTCA TTGGTGGAAATGCCTCCGCTGAAGGCCCGAGGGCGAAGGTACCGAAAGCACAGTAATCA CTGGTGTGCATATTGTCATGAACCATCACCTGCAGGAAACAAGTTTCACAAAAGAAGCCT ACAAGAAGTACATCAAAGATTACATGAAATCAATCAAAGGGAACTTGAAGAACAGAGAC CAGAAAGAGTAAACCTTTTATGACAGGGGCTGCAGAACAATCAAGCACATCCTTGCTA ATTTCAAAAACCTACCAGTTCTTTATTGGTGAACATGAATCCAGATGGCATGGTTGCTC TATTGGACTACCGTGAGGATGGTGTGACCCCATATATGATTTTCTTAAGGATGGTTTAG AAATGGAAAAATGTTAAACAATGTGGCAATTATTTGGATCTATCACCTGTCATCATAAC TGGCTTCTGCTTGCATCCACACAACACAGGACTTAAGACAAATGGGACTGATGTCATC TTGAGCTCTTCATTTATTTGACTGTGATTTATTTGGAGTGGAGGCATTGTTTTAAGAA AAACATGTCATGTAGGTTGTCTAAAAATAAAATGCATTTAAACTCAAAAAAAAAAAAAA </pre>
Restriction Sites:	ECoRI-NOT
ACCN:	NM_003295



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OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.</p>
Components:	<p>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).</p>
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:	<p>NM_003295.1, NP_003286.1</p>
RefSeq Size:	<p>830 bp</p>
RefSeq ORF:	<p>519 bp</p>
Locus ID:	<p>7178</p>
UniProt ID:	<p>P13693</p>
Cytogenetics:	<p>13q14.13</p>
Domains:	<p>TCTP</p>

Gene Summary:

This gene encodes a protein that is a regulator of cellular growth and proliferation. Its mRNA is highly structured and contains an oligopyrimidine tract (5'-TOP) in its 5' untranslated region that functions to repress its translation under quiescent conditions. The encoded protein is involved in a variety of cellular pathways, including apoptosis, protein synthesis and cell division. It binds to and stabilizes microtubules, and removal of this protein through phosphorylation is required for progression through mitotic and meiotic cell divisions. This gene is known to play a role in carcinogenesis, and is upregulated in some cancer cells. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Aug 2017]

Transcript Variant: This variant (2) uses an alternate splice site in the 3' coding region, which results in a frameshift, compared to variant 1. The encoded isoform (2) has a shorter C-terminus than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.