

Product datasheet for **RG236486**

TCTP (TPT1) (NM_001286272) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TCTP (TPT1) (NM_001286272) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TPT1
Synonyms: HRF; p02; p23; TCTP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236486 representing NM_001286272.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATTATCTACCGGGACCTCATCAGCCACGATGAGATGTTCTCCGACATCTACAAGATCCGGGAGATC
GCGGACGGGTTGTGCCTGGAGGTGGAGGGAAGATGGTCAGTAGGACAGAAGGTAACATTGATGACTCG
CTCATTGGTGGAAATGCCTCCGCTGAAGGCCCGAGGGCGAAGGTACCGAAAGCAGATAATCACTGGT
GTCGATATTGTCATGAACCATCACCTGCAGGAAACAAGTTTCACAAAAGAAGCCTACAAGAAGTACATC
AAAGATTACATGAAATCAATCAAAGGGAACTTGAAGAACAGAGACCAGAAAGAGTAAACCTTTTATG
ACAGGGGCTGCAGAACAAATCAAGCACATCCTTGCTAATTTCAAAAACCTACCAGTTCTTTATTGGTGAA
AACATGAATCCAGATGGCATGGTTGCTCTATTGGACTACCGTGAGGATGGTGTGACCCCATATATGATT
TCTTTAAGGATGGTTTAGAAATGGAAAATGTGATGCAAAAGAAAGAAATCCCTGCGCTTCTGTCTG
TCTTTGTGGCGGCCAGATTGAATTGGGAATACATCTT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236486
Blue=ORF Red=Cloning site Green=Tag(s)

```
MIIYRDLISHDEMFSDIYKIREIADGLCLEVEGKMVSRTEGNIDDSLIGGNASAEPEGEGTESTVITG
VDIVMNHHLQETSFTKEAYKIKDYMKSIKGLLEEQRPERVKPFMTGAAEQIKHILANFKNYQFFIGE
NMNPDGMVALLDYREDGVTPYMIFFKDGLEMEKCDAKERNPCAFCLSLWRPRLNNGIHL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHP SILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

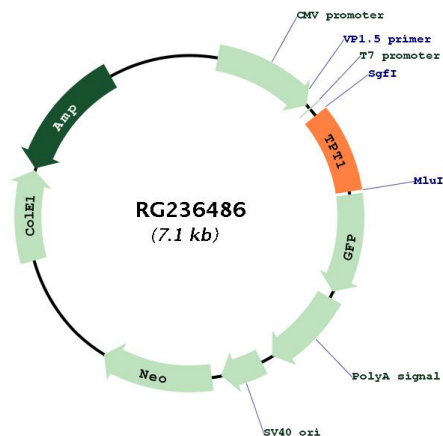
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_001286272

ORF Size: 591 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).

RefSeq: [NM_001286272.1](#), [NP_001273201.1](#)

RefSeq Size: 4814 bp

RefSeq ORF: 594 bp

Locus ID: 7178

Cytogenetics: 13q14.13

MW: 23 kDa

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]