

Product datasheet for **RG202037**

TPST1 (NM_003596) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TPST1 (NM_003596) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TPST1
Synonyms:	TANGO13A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202037 representing NM_003596 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGTTGGAAAGCTGAAGCAGAACTTACTATTGGCATGTCTGGTGATTAGTTCTGTGACTGTGTTTTACC
TGGGCCAGCATGCCATGGAATGCCATACCGGATAGAGGAACGTAGCCAGCCAGTCAAATTGGAGAGCAC
AAGGACCACTGTGAGAACTGGCCTGGACCTCAAAGCCAACAAAACCTTTGCCTATCACAAGATATGCCT
TTAATATTTATTGGAGGTGTGCCTCGGAGTGGAACCACTCATGAGGGCCATGCTGGACGCACATCCTG
ACATTCGCTGTGGAGAGGAAACAGGGTCATCCCGAATCCTGGCCCTGAAGCAGATGTGGTCACGGTC
AAGTAAAGAGAAGATCCGCCTGGATGAGGCTGGTGTTACTGATGAAGTGCTGGATTCTGCCATGCAAGCC
TTCTTACTAGAAATTATCGTTAAGCATGGGGAGCCAGCCCTTATTTATGTAATAAAGATCCTTTTGCCC
TGAAATCTTTAATTACCTTTCTAGGTTATCCCAATGCCAAATTTCTCCTGATGGTCCGAGATGGCCG
GGCATCAGTACATTCAATGATTTCTCGAAAAGTTACTATAGCTGGATTTGATCTGAACAGCTATAGGGAC
TGTTTGACAAAGTGGAATCGTGCTATAGAGACCATGTATAACCAAGTGTATGGAGGTTGGTTATAAAAAGT
GCATGTTGGTTCATATGAACAATTGTCTTACATCCTGAACGGTGGATGAGAACACTCTTAAAGTTCCT
CCGATTTCCATGGAACCACTCAGTATTGCACCATGAAGAGATGATTGGGAAAGCTGGGGGAGTGTCTCTG
TCAAAAGTGGAGAGATCTACAGACCAAGTAATCAAGCCAGTCAATGTAGGAGCTCTATCAAAATGGGTTG
GGAAGATACCGCCAGATGTTTTACAAGACATGGCAGTGATTGCTCCTATGCTTGCCAAGCTTGGATATGA
CCCATATGCCAACCCACCTAACTACGGAACCTGATCCCAAAATTATTGAAAACACTCGAAGGGTCTAT
AAGGGAGAATTCCAACCTACCTGACTTTCTTAAAGAAAACCAAGACTGAGCAAGTGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202037 representing NM_003596
 Red=Cloning site Green=Tags(s)

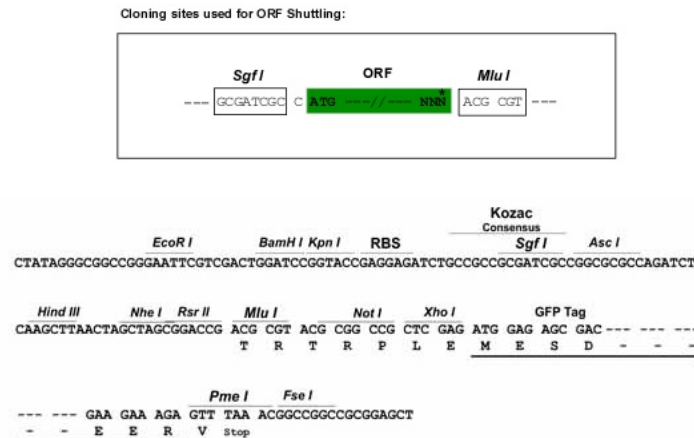
MVGKLLQNLLACLVISSVTVFYLGQHAMECHHRIEERSQPVKLESTRTTVRTGLDLKANKTFAYHKDMP
 LIFIGGVPRSGTTLMRAMLDAHPDIRCGEETRVIPRILALKQMSRSSKEKIRLDEAGVTDEVLD SAMQA
 FLLEIIVKHGEPAPYLCNKDPFALKSLTYLSRLFPNAKFLLMVRDGRASVHSMISRKVTIAGFDLNSYRD
 CLTKWNRAIETMYNQCEVGYKKCMLVHYEQLVHPERWMRTLLKFLQIPWNHSLVHHEEMIGKAGGVSL
 SKVERSTDQVIKPVNVGALSKWVGKIPPDVLDMAVIAPMLAKLGYDPYANPPNYGKPDPKIIENTRRVY
 KGEFQLPDLFLKEKPQTEQVE

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_003596

ORF Size: 1110 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).

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_003596.4](#)

RefSeq Size: 2033 bp

RefSeq ORF: 1113 bp

Locus ID: 8460

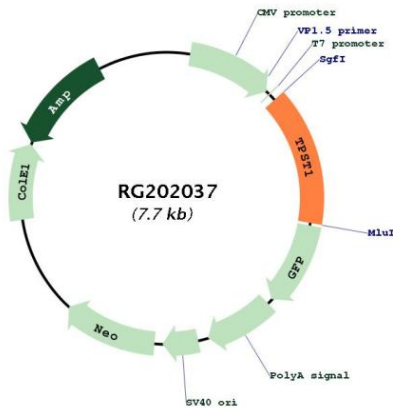
UniProt ID: [O60507](#)

Cytogenetics: 7q11.21

Domains: Sulfotransfer

Gene Summary: Catalyzes the O-sulfation of tyrosine residues within acidic motifs of polypeptides, using 3'-phosphoadenylyl sulfate (PAPS) as cosubstrate.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG202037