

Product datasheet for **RC202037**

TPST1 (NM_003596) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TPST1 (NM_003596) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TPST1
Synonyms:	TANGO13A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202037 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTGGAAAGCTGAAGCAGAAGCTTACTATTGGCATGTCTGGTGATTAGTTCTGTGACTGTGTTTTACC
TGGGCCAGCATGCCATGGAATGCCATCACCGGATAGAGGAACGTAGCCAGCCAGTCAAATGGAGAGCAC
AAGGACCACTGTGAGAACTGGCCTGGACCTCAAAGCCAACAAACCTTTGCCTATCACAAGATATGCCT
TTAATATTTATTGGAGGTGTGCCTCGGAGTGGAACCACTCATGAGGGCCATGCTGGACGCACATCCTG
ACATTCGCTGTGGAGAGGAAACCAGGGTATTCCCGAATCCTGGCCCTGAAGCAGATGTGGTCACGGTC
AAGTAAAGAGAAGATCCGCCTGGATGAGGCTGGTGTACTGATGAAGTGCTGGATTCTGCCATGCAAGCC
TTCTTACTAGAAATTATCGTTAAGCATGGGGAGCCAGCCCTTATTTATGTAATAAAGATCCTTTTGCC
TGAAATCTTTAATTACCTTTCTAGGTTATCCCAATGCCAAATTTCTCCTGATGGTCCGAGATGGCCG
GGCATCAGTACATTCAATGATTTCTCGAAAAGTACTATAGCTGGATTTGATCTGAACAGCTATAGGGAC
TGTTTGACAAAGTGAATCGTGCTATAGAGACCATGTATAACCAAGTGTATGGAGTTGGTTATAAAAAGT
GCATGTTGGTTCCTATGAACAACCTGTCTTACATCCTGAACGGTGGATGAGAACAACCTTAAAGTTCCT
CCGATTCATGGAACCACTCAGTATTGCACCATGAAGAGATGATTGGGAAAGCTGGGGGAGTGTCTCTG
TCAAAGTGGAGAGATCTACAGACCAAGTAATCAAGCCAGTCAATGTAGGAGCTCTACAAAATGGGTTG
GGAGATACCGCCAGATGTTTTACAAGACATGGCAGTGATTGCTCCTATGCTTGCCAAGCTTGGATATGA
CCCATATGCCAACCCACCTAACTACGGAAAACCTGATCCCAAAATTATTGAAAACACTCGAAGGTCTAT
AAGGGAGAATTCCAACCTACCTGACTTTCTTAAAGAAAACCCAGACTGAGCAAGTGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC202037 protein sequence
Red=Cloning site Green=Tags(s)

MVGKLGKQNLALLACLVISSVTVFYLGQHAMECHHRIEERSQPVKLESTRRTTVRTGLDLKANKTFAYHKDMP
 LIFIGGVPRSGTTLMRAMLDAHPDIRCGEETRVIPRILALKQMWSRSSKEKIRLDEAGVTDEVLDSAMQA
 FLLEIIVKHGEPAPYLCNKDPFALKSLTYLSRFLFNAKFLLMVRDGRASVHSMISRKVTIAGFDLNSYRD
 CLTKWNRAIETMYNQCEVGYKKCMLVHYEQLVLHPERWMRTLKFLQIPWNHNSVLHHEEMIGKAGGVSL
 SKVERSTDQVIKPVNVGALSKWVGKIPPDVLDMAVIAPMLAKLGYDPYANPPNYGKPDPKIIENTRRVY
 KGEFQLPDFLKEKPQTEQVE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6310_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

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.

RefSeq: [NM_003596.4](#)

RefSeq Size: 2062 bp

RefSeq ORF: 1113 bp

Locus ID: 8460

UniProt ID: [O60507](#)

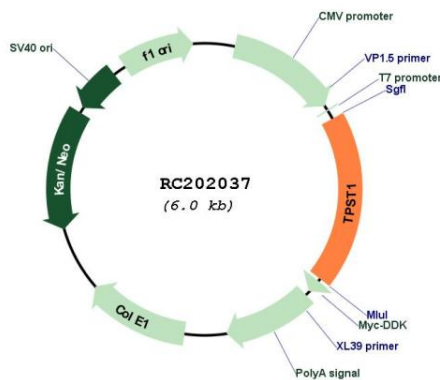
Cytogenetics: 7q11.21

Domains: Sulfotransfer

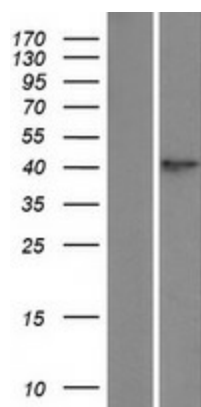
MW: 42.2 kDa

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 RC202037



Western blot validation of overexpression lysate (Cat# [LY418565]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202037 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).