

Product datasheet for RC204969

TPST2 (NM_001008566) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TPST2 (NM_001008566) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TPST2
Synonyms:	TANGO13B; TPST-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204969 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGCCTGTCGGTGGGAGGGTCTGCTGGCAGCCGGCTGCGCCCTGGTCTGGTGGCGGTTGAGC
TGGGACAGCAGGTGCTAGAGTGCCGGGCGGTGCTGGCGGGCTGCGGAGCCCCGGGGGCCATGCGGCC
TGAGCAGGAGGAGCTGGTATGGTGGGCACCAACCACGTGGAATACCGCTATGGCAAGGCCATGCCGCTC
ATCTTCGTGGGTGGCGTGCCTCGCAGTGGCACCACGTTGATGCGCGCCATGCTGGACGCCACCCCTGAGG
TGGCCTGCGGCGAGGAGACCCGATCATCCCGCGGTGCTGGCCATGCGCCAGGCCTGGTCCAAGTCTGG
CCGTGAGAAGCTGCGGCTGGATGAGGCGGGGTGACGGATGAGGTGCTGGACGCCCCATGCAGGCCTTC
ATCCTGGAGGTGATTGCCAAGCACGGAGAGCCGGCCCGGTGCTCTGCAACAAGGACCCATTTACGCTCA
AGTCTCGGTCTACCTGTGCGCCTGTTCCCAACTCAAAGTTCTGCTGATGGTGGGGACGGCCGGGC
CTCCGTGCACTCCATGATCACGCGCAAAGTCAACATTGCGGGCTTTGACCTCAGCAGCTACCGTGACTGC
CTCACAAGTGGAAACAAGGCCATCGAGGTGATGTACGCCAGTGCATGGAGGTAGGCAAGGAGAAGTGT
TGCTGTGTACTACGAGCAGCTGGTGTGCACCCAGGCGCTCACTCAAGCTCATCTCGACTTCTCCGG
CATCGCTGGAGCGAGCTGTCTCCACCATGAAGACCTATTGGCAAGCCCGGTGGTGTCTCCCTGTCC
AAGATCGAGCGGTCCACGGACCAGGTCAACAAGCCTGTTAACCTGGAAGCGCTCTCCAAGTGACTGGCC
ACATCCCTGGGGATGTGGTGGGGACATGGCCAGATCGCCCCATGCTGGCTCAGCTCGGCTATGACCC
TTATGCAAACCCCAACTATGGCAACCTGACCCCTTCGTCATCAACAACACACAGCGGGTCTTGAAA
GGGACTATAAACACCAAGCAATCTGAAAGGATATTTTCAGGTGAACGAGAACAGCACCTCTCCCACT
TAGGAAGCTCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204969 protein sequence
 Red=Cloning site Green=Tags(s)

MRLSVRRVLLAAGCALVLVAVQLGQQVLECAVLGLRSPRGAMRPEQEELVMVGTNHVEYRYGKAMPL
 IFVGGVPRSGTTLMRAMLDAPHEVRCGEETRIIPRVLAMRQAWSKSGREKLRLDEAGVTDEVLDAAMQAF
 ILEVIAKHGEPARVLCNKDPFTLKSSVYLSRLFNSKFLLMVRDGRASVHSMITRKVTIAGFDLSSYRDC
 LTKWNKAIEVMYAQCMVEVGKEKCLPVYYEQLVLHPRRSLKILDFLGIAWSDAVLHHEDLIGKPGGVSL
 KIERSTDQVIKPVNLEALSKWTGHIPGDVVRDMAQIAPMLAQLGYDPYANPPNYGNPDPFVINNTQRVLK
 GDYKTPANLKGYFQVNQNSTSSHLGSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6425_b11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001008566

ORF Size: 1131 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_001008566.1](#), [NP_001008566.1](#)

RefSeq Size: 2018 bp

RefSeq ORF: 1134 bp

Locus ID: 8459

UniProt ID: [O60704](#)

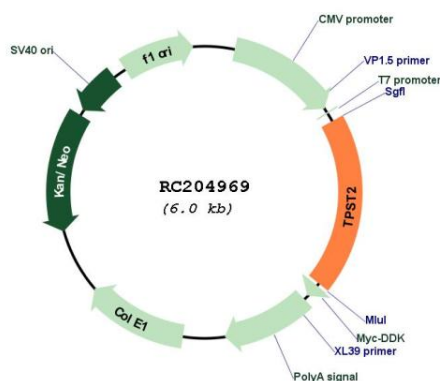
Cytogenetics: 22q12.1

Protein Families: Transmembrane

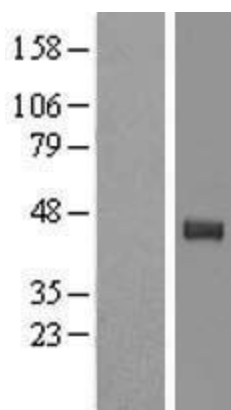
MW: 41.9 kDa

Gene Summary: The protein encoded by this gene catalyzes the O-sulfation of tyrosine residues within acidic regions of proteins. The encoded protein is a type II integral membrane protein found in the Golgi body. Alternative splicing produces multiple transcript variants encoding distinct isoforms. [provided by RefSeq, May 2018]

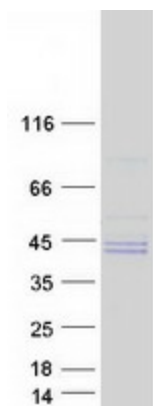
Product images:



Circular map for RC204969



Western blot validation of overexpression lysate (Cat# [LY423338]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204969 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TPST2 protein (Cat# [TP304969]). The protein was produced from HEK293T cells transfected with TPST2 cDNA clone (Cat# RC204969) using MegaTran 2.0 (Cat# [TT210002]).