

Product datasheet for RC220456

TPST2 (NM_003595) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TPST2 (NM_003595) 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: >RC220456 representing NM_003595
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCGCCTGTCGGTGGGAGGGTCTGCTGGCAGCCGGCTGCGCCCTGGTCTGGTGGCGGTTGAGC
 TGGGACAGCAGGTGCTAGAGTGCCGGGCGGTGCTGGCGGGCTGCGGAGCCCCGGGGGCCATGCGGCC
 TGAGCAGGAGGAGCTGGTATGGTGGGCACCAACCACGTGGAATACCGCTATGGCAAGGCCATGCCGCTC
 ATCTTCGTGGGTGGCGTGCCTCGCAGTGGCACCACGTTGATGCGCGCCATGCTGGACGCCACCCCGAGG
 TGGCCTGCGGCGAGGAGACCCGATCATCCCGCGGTGCTGGCCATGCGCCAGGCCTGGTCCAAGTCTGG
 CCGTGAGAAGCTGCGGCTGGATGAGGCGGGGTGACGGATGAGGTGCTGGACGCCCATGACGGCCTTC
 ATCCTGGAGGTGATTGCCAAGCACGGAGAGCCGGCCCGGTGCTCTGCAACAAGGACCCATTTACGCTCA
 AGTCTCGGTCTACCTGTGCGCCTGTTCCCAACTCAAAGTTCTGCTGATGGTGGGGACGGCCGGGC
 CTCCGTGCACTCCATGATCACGCGCAAAGTCAACATTGCGGGCTTTGACCTCAGCAGTACCGTGACTGC
 CTCACCAAGTGAACAAGGCCATCGAGGTGATGTACGCCAGTGCATGGAGGTAGGCAAGGAGAAGTGCC
 TGCCTGTGTACTACGAGCAGTGGTGTGCACCCAGGCGCTCACTCAAGCTCATCTCGACTTCTCTCGG
 CATCGCCTGGAGCGAGCTGTCTCCACCATGAAGACCTATTGGCAAGCCCGGTGGTGTCTCCCTGTCC
 AAGATCGAGCGGTCCACGGACCAGGTCAACAAGCCTGTTAACCTGGAAGCGCTTCCAAGTGACTGGCC
 ACATCCCTGGGGATGTGGTGGGGACATGGCCCAGATCGCCCCATGCTGGCTCAGCTCGGCTATGACCC
 TTATGCAAACCCCAACTATGGCAACCTGACCCCTTCGTCATCAACAACACACAGCGGGTCTTGAAA
 GGGGACTATAAACACCAGCCAATCTGAAAGGATATTTTCAGGTGAACGAGAACAGCACCTCTCCCACT
 TAGGAAGCTCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC220456 representing NM_003595
Red=Cloning site Green=Tags(s)

MRLSVRRVLLAAGCALVVLAVQLGQQVLECRVLAGLRSPRGAMRPEQEELVMVGTNHVEYRYGKAMPL
 IFVGGVPRSGTTLMRAMLDAPHEVRCGEETRIIPRVLAMRQAWSKSGREKLRLDEAGVTDEVLDAAQAF
 ILEVIAKHGEPARVLCNKDPFTLKSSVYLSRLFNSKFLLMVRDGRASVHSMITRKVTIAGFDLSSYRDC
 LTKWNKAIEVMYAQCMVEVGKEKCLPVYYEQLVLHPRRSLKILDFLGIAWSDAVLHHEDLIGKPGGVSL
 KIERSTDQVIKPVNLEALSJWTGHI PGD VVRDMAQIAPMLAQLGYDPYANPPNYGNPDPFVINNTQRVLK
 GDYKTPANLKG YFQVNQNSTSSHLGSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6108_c04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003595

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.

RefSeq: [NM_003595.5](#)

RefSeq Size: 1910 bp

RefSeq ORF: 1134 bp

Locus ID: 8459

UniProt ID: [O60704](#)

Cytogenetics: 22q12.1

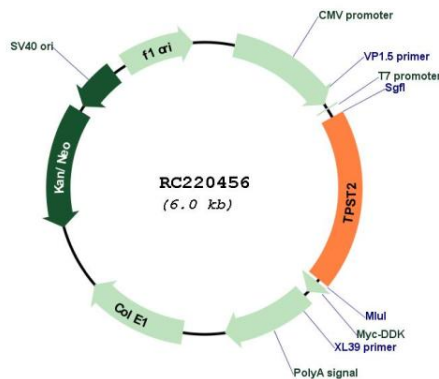
Domains: Sulfotransfer

Protein Families: Transmembrane

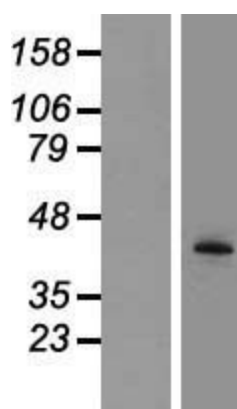
MW: 41.7 kDa

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 RC220456



Western blot validation of overexpression lysate (Cat# [LY418564]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220456 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).