

Product datasheet for **RG220456**

TPST2 (NM_003595) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TPST2 (NM_003595) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TPST2
Synonyms: TANGO13B; TPST-2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG220456 representing NM_003595
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCGCCTGTCGGTGGGAGGGTCTGCTGGCAGCCGGCTGCGCCCTGGTCTGGTCTGGCGGTTTCAGC
 TGGGACAGCAGGTGCTAGAGTGCCGGGCGGTGCTGGCGGGCTGCGGAGCCCCGGGGGCCATGCGGCC
 TGAGCAGGAGGAGCTGGTATGGTGGGCACCAACCACGTGGAATACCGCTATGGCAAGGCCATGCCGCTC
 ATCTTCGTGGGTGGCGTGCCTCGCAGTGGCACCACGTTGATGCGCGCCATGCTGGACGCGCACCCCGAGG
 TGGCTGCGGCGAGGAGACCCGCATCATCCCGCGGTGCTGGCCATGCGCCAGGCCCTGGTCCAAGTCTGG
 CCGTGAGAAGCTGCGGCTGGATGAGGCGGGGTGACGGATGAGGTGCTGGACGCCCATGACGGCCTTC
 ATCCTGGAGGTGATTGCCAAGCACGGAGAGCCGGCCCGGTGCTCTGCAACAAGGACCCATTTACGCTCA
 AGTCTCGGTCTACCTGTGCGCCTGTTCCCAACTCAAAGTTCTGCTGATGGTGGGGACGGCCGGGC
 CTCCGTGCACTCCATGATCACGCGCAAAGTCACCATGCGGGCTTTGACCTCAGCAGTACCGTGACTGC
 CTCACCAAGTGAACAAGGCCATCGAGGTGATGTACGCCAGTGCATGGAGGTAGGCAAGGAGAAGTGCC
 TGCCTGTGTACTACGAGCAGCTGGTGTGCACCCAGGCGCTCACTCAAGCTCATCTCGACTTCTCCGG
 CATCGCCTGGAGCGACGCTGTCTCCACCATGAAGACCTATTGGCAAGCCCGGTGGTGTCTCCCTGTCC
 AAGATCGAGCGGTCCACGGACCAGGTCATCAAGCCTGTTAACCTGGAAGCGCTTCCAAGTGACTGGCC
 ACATCCCTGGGGATGTGGTGGGGACATGGCCCAGATCGCCCCATGCTGGCTCAGCTCGGCTATGACCC
 TTATGCAAACCCCAACTATGGCAACCTGACCCCTTCGTCATCAACAACACACAGCGGGTCTTGAA
 GGGGACTATAAACACCAAGCAATCTGAAAGGATATTTTCAGGTGAACGAGAACAGCACCTCCTCCCACT
 TAGGAAGCTCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG220456 representing NM_003595
 Red=Cloning site Green=Tags(s)

MRLSVRRVLLAAGCALVLLAVQLGQQVLECRVLAGLRSRPGAMRPEQEELVMVGTNHVEYRYGKAMPL
 IFVGGVPRSGTTLMRAMLDAPHEVRCGEETRIIPRVLAMRQAWKSGREKLRLEAGVTDEVLDAAMQAF
 ILEVIAKHGEPARVLCNKDPFTLKSSVYLSRLFNSKFLLMVRDGRASVHSMITRKVTIAGFDLSSYRDC
 LTKWNKAIEVMYAQCMEVKGKEKCLPVYYEQLVLHPRRSLKILDFLGIAWSDAVLHHEDLIGKPGGVSL
 KIERSTDQVIKPNLEALSKWTGHIPGDVVRDMAQIAPMLAQLGYDPYANPPNYGNPDPFVINNTQRVLK
 GDYKTPANLKG YFQVNQNSTSSHLGSS

TRTRPLE - GFP Tag - V

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](#)

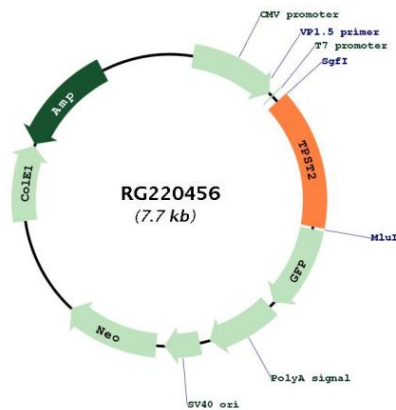
Cytogenetics: 22q12.1

Domains: Sulfotransfer

Protein Families: Transmembrane

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 RG220456