

Product datasheet for **RC204002**

TST (NM_003312) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TST (NM_003312) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TST
Synonyms:	RDS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204002 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTCATCAGGTGCTCTACCGGGCGCTGGTCTCCACCAAGTGGCTGGCGGAGTCCATCAGGACTGGCA
AGCTGGGGCCCGGCTGCGGGTGTGGACGCGTCTGGTACTCACCAGGCACCCGAGAGGCCCGCAAGGA
GTACCTCGAGCGCCACGTACCCGGCGCCTTTCTTTGACATAGAAGAGTGCCGGGACACGGCGTCGCC
TACGAGATGATGCTGCCAGCGAGGCTGGCTTCGCCGAGTATGTGGCCCGCTGGGCATCAGCAACCACA
CGCACGTGGTGGTATGATGGTGAACACCTGGGCAGCTTCTATGCTCCCGGGTCTGGTGGATGTTCCG
TGTGTTTGGCCACCGCACCGTATCAGTGCCTCAATGGTGGCTTCCGGAAGTGGCTGAAGGAGGGCCACCCG
GTGACATCCGAGCCCTCACGCCAGAACCGGCCGCTCTCAAAGCCACACTGGACCCTCCCTGCTCAAGA
CCTACGAGCAGGTGCTGGAGAACCTTGAATCTAAGAGGTTCCAGCTGGTGGATTCAAGGTCTCAAGGGCG
GTTCTGGGCACCGAGCCGGAGCCGGATGCAGTAGGACTGGACTCGGGCCATATCCGTGGTCCGCTCAAC
ATGCCTTTCATGGACTTCTGACTGAGGATGGCTTCGAGAAGGGCCAGAAGAGCTCCGTGCTGTTCC
AGACCAAGAAGGTGGATCTCTCGCAGCCTCTCATTGCCACGTGCCGAAGGGAGTACCAGCTGCCACGT
GGCCTTGGCTGCCTACCTCTCGGCAAGCCTGATGTGGCCGTGTACGATGGCTCCTGGTCCGAGTGGTTT
CGCCGGGCCCCCAGAGAGCCGTGTGTCCAGGAAAGTCTGAGAAGGCC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204002 protein sequence
Red=Cloning site Green=Tags(s)

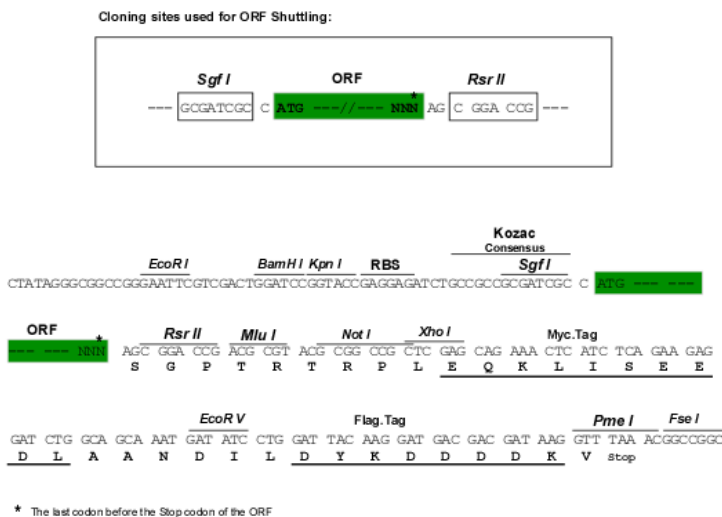
MVHQVLYRALVSTKWLAEIIRTGKLGPLRVLDASWYSPGTREARKEYLERHVPASFFDIEECRD TASP
 YEMMLPSEAGFAEYVGR LGISNHTHVVVYDGEHLGSFYAPRVWVWFRVFGHRTVSVLNGGFRNWLKEGHP
 VTSEPSRPEPAVFKATLDRSLLKTYEQVLENLESKRFLVDSRSQGRFLGTEPEPDAVGLDSGHIRGAVN
 MPFMDFLTEDGFKEGPEELRALFQTKKVDLSQPLIATCRKGVTAACHVALAAYLCGKPDVAVYDGSWSEWF
 RRAPPESRVSQKSEKA

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6801_g08.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_003312

ORF Size: 891 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_003312.6](#)

RefSeq Size: 1143 bp

RefSeq ORF: 894 bp

Locus ID: 7263

UniProt ID: [Q16762](#)

Cytogenetics: 22q12.3

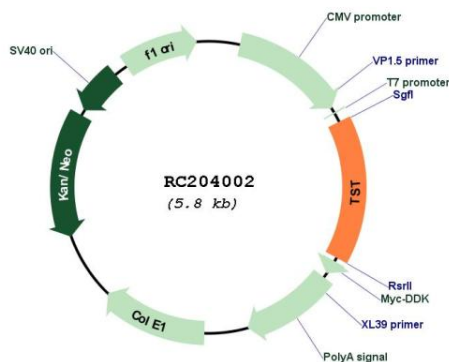
Domains: RHOD

Protein Families: Druggable Genome

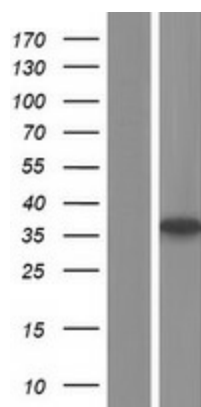
MW: 33.4 kDa

Gene Summary: This is one of two neighboring genes encoding similar proteins that each contain two rhodanese domains. The encoded protein is localized to the mitochondria and catalyzes the conversion of thiosulfate and cyanide to thiocyanate and sulfite. In addition, the protein interacts with 5S ribosomal RNA and facilitates its import into the mitochondria. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2012]

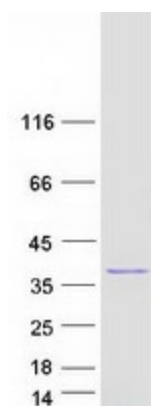
Product images:



Circular map for RC204002



Western blot validation of overexpression lysate (Cat# [LY418774]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204002 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TST protein (Cat# [TP304002]). The protein was produced from HEK293T cells transfected with TST cDNA clone (Cat# RC204002) using MegaTran 2.0 (Cat# [TT210002]).