

## 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  
TGTGTTTGGCCACCGCACCGTATCAGTGCCTCAATGGTGGCTTCGGAACTGGCTGAAGGAGGGCCACCCG  
GTGACATCCGAGCCCTCACGCCAGAACCGGCCGCTCTCAAAGCCACACTGGACCCTCCCTGCTCAAGA  
CCTACGAGCAGGTGCTGGAGAACCTTGAATCTAAGAGGTTCCAGCTGGTGGATTCAAGGTCTCAAGGGCG  
GTTCTGGGCACCGAGCCGGAGCCGGATGCAGTAGGACTGGACTCGGGCCATATCCGTGGTCCGCTCAAC  
ATGCCTTTCATGGACTTCTGACTGAGGATGGCTTCGAGAAGGGCCAGAAGAGCTCCGTGCTGTGTTCC  
AGACCAAGAAGGTGGATCTCTCGCAGCCTCTCATTGCCACGTGCCGAAGGGAGTACCAGCTGCCACGT  
GGCCTTGGCTGCCTACCTCTCGCGCAAGCCTGATGTGGCCGTGTACGATGGCTCCTGGTCCGAGTGGTTT  
CGCCGGGCCCCCAGAGAGCCGTGTGCCAGGAAAGTCTGAGAAGGCC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA



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

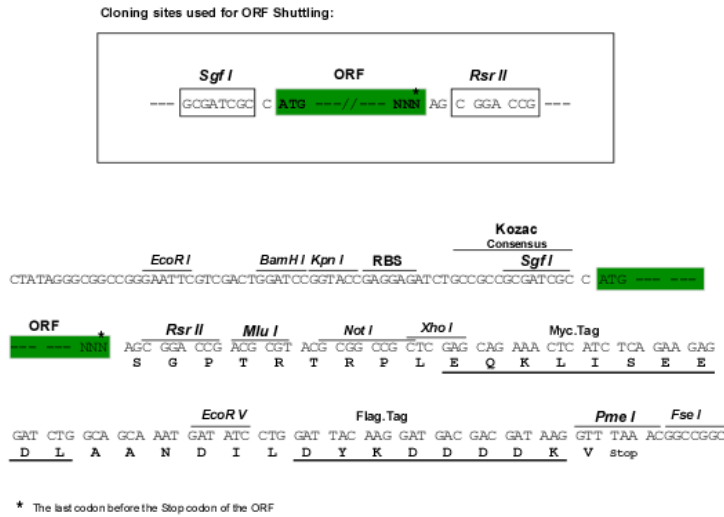
MVHQVLYRALVSTKWLAESIRTGKLGPLRVLDASWYSPGTREARKEYLERHVPASFFDIEECRD TASP  
 YEMMLPSEAGFAEYVGR LGISNHTHV VYDGEHLGSFYAPRVW MFRVFGHRTVSVLNGGFRNWLKEGHP  
 VTSEPSRPEPAVFKATLDRSLLKTYEQVLENLESKRFQLVDSRSQGRFLGTEPEPDAVGLDSGHIRGAVN  
 MPFMDFLTEDGFKEGPEELRALFQTKKVDLSQPLIATCRKGV TACHVALAAYLCGKPDVA VYDGSWSEWF  
 RRAPPESRVSQ GKSEKA

SGPTRRPLEQKLI SEEDLAANDILDYKDDDDKV

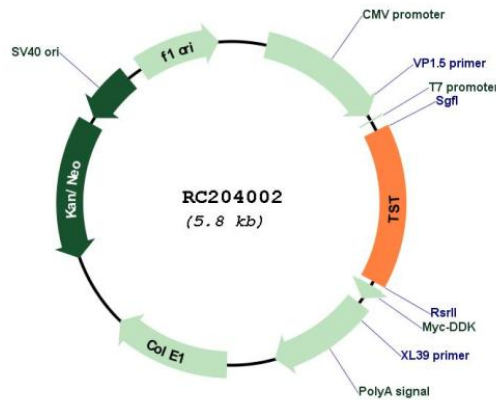
Chromatograms: [https://cdn.origene.com/chromatograms/mk6801\\_g08.zip](https://cdn.origene.com/chromatograms/mk6801_g08.zip)

Restriction Sites: SgfI-RsrII

Cloning Scheme:

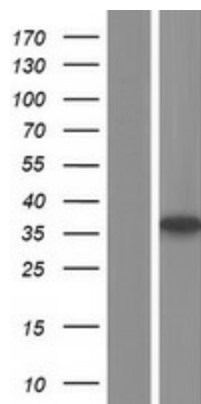


Plasmid Map:

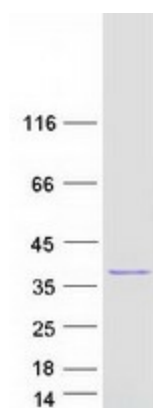


ACCN: NM\_003312

<b>ORF Size:</b>	891 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_003312.6</a>
<b>RefSeq Size:</b>	1143 bp
<b>RefSeq ORF:</b>	894 bp
<b>Locus ID:</b>	7263
<b>UniProt ID:</b>	<a href="#">Q16762</a>
<b>Cytogenetics:</b>	22q12.3
<b>Domains:</b>	RHOD
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	33.4 kDa
<b>Gene Summary:</b>	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:**

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]).