

Product datasheet for **RG204002**

TST (NM_003312) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TST (NM_003312) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TST
Synonyms:	RDS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204002 representing NM_003312 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTCATCAGGTGCTCTACCGGGCGCTGGTCTCCACCAAGTGGCTGGCGGAGTCCATCAGGACTGGCA
AGCTGGGGCCCGGCTGCGGGTGTGGACGCGTCTGGTACTCACCAGGCACCCGAGAGGCCCGCAAGGA
GTACCTCGAGCGCCACGTACCCGGCGCCTCTTTCTTTGACATAGAAGAGTGCCGGGACACGGCGTCGCC
TACGAGATGATGCTGCCAGCGAGGCTGGCTTCGCCGAGTATGTGGCCCGCTGGGCATCAGCAACCACA
CGCACGTGGTGGTGTATGATGGTGAACACCTGGGCAGCTTCTATGCTCCCGGGTCTGGTGGATGTTCCG
TGTGTTTGGCCACCGCACCGTATCAGTGTCAATGGTGGCTTCCGGAAGTGGCTGAAGGAGGGCCACCCG
GTGACATCCGAGCCCTCAGCCCAAGACCGGCCGCTCTTCAAAGCCACACTGGACCGCTCCCTGCTCAAGA
CCTACGAGCAGGTGCTGGAGAACCTTGAATCTAAGAGGTTCCAGCTGGTGGATTCAAGGTCTCAAGGGCG
GTTCTGGGCACCGAGCCGAGCCGGATGCAGTAGGACTGGACTCGGGCCATATCCGTGGTGCCGTCAAC
ATGCCTTTCATGGACTTCCTGACTGAGGATGGCTTCGAGAAGGGCCAGAGAGCTCCGTGCTGTTCC
AGACCAAGAAGGTGGATCTCTCGCAGCCTCTATTGCCAGTGCCGAAGGGAGTCACCGCTGCCACGT
GGCCTTGGCTGCCTACCTCTCGGCAAGCCTGATGTGGCCGTGTACGATGGCTCCTGGTCCGAGTGGTTT
CGCCGGGCCCCCAGAGAGCCGTGTGTCCAGGAAAGTCTGAGAAGGCC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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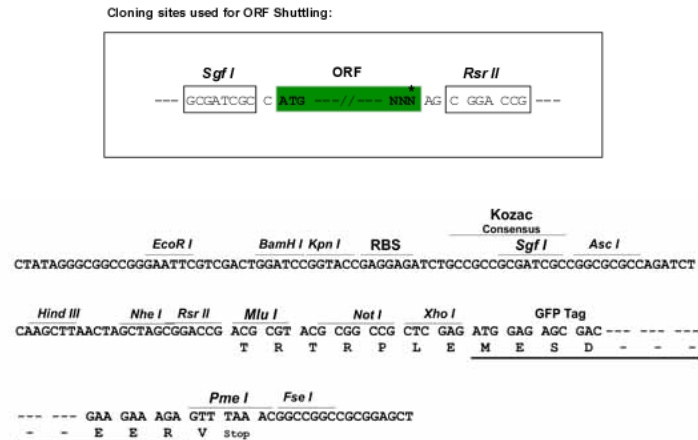
Protein Sequence: >RG204002 representing NM_003312
 Red=Cloning site Green=Tags(s)

MVHQVLYRALVSTKWLAESIRTGKLGPLRVLDASWYSPGTREARKEYLERHVPASFFDIEECRDASP
 YEMMLPSEAGFAEYVGRIGISNHTHVVDGEHLGSFYAPRVWMMFRVFGHRTVSVLNGGFRNWLKEGHP
 VTSEPSRPEPAVKATLDRSLLKTYEQVLENLESKRFQLVDSRSQGRFLGTEPEPDAVGLDSGHIRGAVN
 MPFMDFLTEDGFEKGPEELRALFQTKKVDLSQPLIATCRKGVTAACHVALAAYLCGKPDVAVYDGSWSEWF
 RRAPPESRVSQKSEKA

SGPTRRRLE – GFP Tag – V

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: 1167 bp

RefSeq ORF: 894 bp

Locus ID: 7263

UniProt ID: [Q16762](#)

Cytogenetics: 22q12.3

Domains: RHOD

Protein Families: Druggable Genome

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 RG204002