

Product datasheet for **SC118066**

TST (NM_003312) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TST (NM_003312) Human Untagged Clone
Tag:	Tag Free
Symbol:	TST
Synonyms:	RDS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118066 sequence for NM_003312 edited (data generated by NextGen Sequencing)

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ATGGTTCATCAGGTGCTCTACCGGGCGCTGGTCTCCACCAAGTGGCTGGCGGAGTCCATC
AGGACTGGCAAGCTGGGGCCCGCCTGCGGGTGCTGGACGCGTCCCTGGTACTCACCAGGC
ACCCGAGAGGCCCGCAAGGAGTACCTCGAGCGCCACGTACCCGGCGCCTTTTCTTTGAC
ATAGAAGAGTGCCGGGACACGGCGTCGCCCTACGAGATGATGCTGCCAGCGAGGCTGGC
TTCGCCGAGTATGTGGGCCGCTGGGCATCAGCAACCACACGCACGTGGTGGTGTATGAT
GGTGAACACCTGGGCAGTTCTATGCTCCCGGGTCTGGTGGATGTTCCGTGTGTTGGC
CACCGCACCGTATCAGTGCTCAATGGTGGCTCCGGAAGTGGCTGAAGGAGGGCCACCCG
GTGACATCCGAGCCCTCACGCCAGAACCAGCCGCTTTCAAAGCCACACTGGACCGCTCC
CTGCTCAAGACCTACGAGCAGGTGCTGGAGAACCTTGAATCTAAGAGTTCAGCTGGTG
GATTCAAGGTCTCAAGGGCGGTTCTGGGCACCGAGCCGAGCCGATGCAGTAGGACTG
GACTCGGGCCATATCCGTGGTGCCGTC AACATGCCTTTTCATGGACTTCCTGACTGAGGAT
GGCTTCGAGAAGGGCCCAGAAGAGCTCCGTGCTCTGTTCCAGACCAAGAAGGTGGATCTC
TCGACGCTCTCATTGCCACGTGCCGAAGGGAGTCACCGCCTGCCACGTGGCCTTGCT
GCCTACCTCTGCGGAAGCCTGATGTGGCCGTGTACGATGGCTCCTGGTCCGAGTGGTTT
CGCCGGGCCCCCAGAGAGCCGTGTGCCAGGGAAAGTCTGAGAAGGCCTGA
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Clone variation with respect to NM_003312.4



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_003312 unedited GGCGTCANCATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACCAGCGGCGTCC GGGGCGAGTGACACGCAGAGCTGAAGCCATGGTTCATCAGGTGCTCTACCGGGCGCTGGT CTCCACCAAGTGGCTGGCGGAGTCCATCAGGACTGGCAAGCTGGGGCCCGCCTGCGGGT GCTGGACGCGTCTGGTACTCACCAGGCACCCGAGAGGCCGCAAGGAGTACCTCGAGCG CCACGTACCCGGCGCCTCTTTCTTTGACATAGAAGAGTGCCGGGACACGGCGTGCCTA CGAGATGATGCTGCCAGCGAGGCTGGCTTCGCCGAGTATGTGGGCCCGCTGGGCATCAG CAACCACACGCACGTGGTGGTGTATGATGGTGAACACCTGGGCAGCTTCTATGCTCCCCG GGTCTGGTGGATGTTCCGTGTGTTTGGCCACCGCACCGTATCAGTGCTCAATGGTGGCTT CCGGAAGTGGCTGAAGGAGGGCCACCCGGTGACATCCGAGCCCTCACGCCAGAACCAGCG CGTCTTCAAAGCCACACTGGACCGCTCCCTGCTCAAGACCTACGAGCAGGTGCTGGAGAA CCTTGAATCTAAGAGGTTCCAGCTGGTGGATTCAAGGTCTCAAGGGCGGTTCTGGGCAC CGAGCCGAGCCGGATGCAGTANGACTGGACTCGGGCCATATCCGTGGTCCCGTCAACAT GCCTTTTATGGACTTCTGNACTGAGATGGCTTCGAGAGGGCCAGAGAAGCTCGTGCTC TGTCAGACCAAGAAGTGGATCTCTCGCACCTCTCATGCCACGTGCCGAAGGAGTCCCG CCTGCAAGTGGCCTTGCTGCTACCCTGCGCAGCCTGATGTGCCGTACGATGCTCTGTGCN
Restriction Sites:	NotI-NotI
ACCN:	NM_003312
Insert Size:	1250 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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_003312.4 , NP_003303.2
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]

Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.