

## Product datasheet for **SC321155**

### 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:** Neomycin  
**Vector:** pCMV6-AC (PS100020)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_003312.4  
 GGGGCGAGCGCCAGCGCGCGTCCGGGGCGAGTGACACGCAGAGCTGAAGCCATGGTTCA  
 TCAGGTGCTCTACCGGGCGTGGTCTCCACCAAGTGGCTGGCGGAGTCCATCAGGACTGG  
 CAAGCTGGGGCCCGCCTGCGGGTGTGACGCGTCTGTTACTACCAGGCACCCGAGA  
 GGCCCGCAAGGAGTACCTCGAGCGCCACGTACCCGGCGCCTTTTCTTTGACATAGAAGA  
 GTGCCGGACACGGCGTGCCTACGAGATGATGCTGCCAGCGAGGCTGGCTTCGCCGA  
 GTATGTGGCCGCTGGGCATCAGCAACCACGCACGTGGTGGTGTATGATGGTGAACA  
 CCTGGGCAGTTCTATGCTCCCGGGTCTGGTGGATGTTCCGTGTGTTGGCCACCGCAC  
 CGTATCAGTGCTCAATGGTGGCTTCCGGAAGTGGCTGAAGGAGGGCCACCCGGTGACATC  
 CGAGCCCTCACGCCAGAACCGCGCTTCAAAGCCACACTGGACCGCTCCCTGCTCAA  
 GACCTACGAGCAGGTGCTGGAGAACCTGAATCTAAGAGGTTCCAGCTGGTGGATTCAAG  
 GTCTCAAGGGCGGTTCTGGGCACCGAGCCGGAGCCGGATGCAGTAGGACTGGACTCGGG  
 CCATATCCGTGGTGCCGTCAACATGCCTTTCATGGACTTCTGACTGAGGATGGCTTCGA  
 GAAGGGCCAGAAAGAGCTCCGTGCTCTGTTCCAGACCAAGAAGGTGGATCTCTCGCAGCC  
 TCTCATTGCCACGTGCCGCAAGGGAGTCAACCGCTGCCACGTGGCCTTGGCTGCCTACCT  
 CTGCGCAAGCCTGATGTGGCCGTGACGATGGCTCCTGGTCCGAGTGGTTTCGCCGGGC  
 CCCCCAGAGAGCCGTGTGCCAGGAAAGTCTGAGAAGGCCTGAGCCGTGACCTCTTC  
 TGCTTACTGTAAGTGCAGCCGGTTTAGTGACCCCATGACTTACAGCCGGTTCTTACCTCT  
 TAGGTGAAGGAGATGACATGTTTTAGAAATTGCTGTGCAAGGCTCACCTCTCTGTCA  
 AACTGGAATAAACTTTGCCTTTTCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
 AAAAAAA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_003312



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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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>	<u><a href="#">NM_003312.4</a></u> , <u><a href="#">NP_003303.2</a></u>
<b>RefSeq Size:</b>	1167 bp
<b>RefSeq ORF:</b>	894 bp
<b>Locus ID:</b>	7263
<b>UniProt ID:</b>	<u><a href="#">Q16762</a></u>
<b>Cytogenetics:</b>	22q12.3
<b>Domains:</b>	RHOD
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.</p>