

Product datasheet for **SC318762**

TSTD1 (NM_001113205) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TSTD1 (NM_001113205) Human Untagged Clone
Tag:	Tag Free
Symbol:	TSTD1
Synonyms:	KAT; TST
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	<p>>NCBI ORF sequence for NM_001113205, the custom clone sequence may differ by one or more nucleotides</p> <pre> ATGGCTGGAGCGCCACGGTCTCGCTTCCTGAACTCCGTTCACTCCTAGCCTCCGGACGG GCCCGGCTCTTCGACGTGCGCTCTCGGAGGAGGCGGCAGCTGGGACCATCCCAGGGGCG CTCAACATCCCGGTGTCCGAGTTGGAGAGTGCTCTGCAGATGGAGCCAGCTGCCTTCCAG GCTTTATATTCTGCTGAGAAGCCAAAGCTGGAAGATGAGCATCTCGTTTTCTTCTGTCAG ATGGGCAAGCGGGGCTCCAGGCCACGCAGCTGGCCGGAGTCTTGATACACTGGGTAC GGGGAGGTGTGGCTGCTAGCTGGGAGG </pre>
Restriction Sites:	Please inquire
ACCN:	NM_001113205
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).
OTI Annotation:	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.
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).



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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:	<u>NM_001113205.1, NP_001106676.1</u>
RefSeq Size:	688 bp
RefSeq ORF:	330 bp
Locus ID:	100131187
UniProt ID:	<u>Q8NFU3</u>
Cytogenetics:	1q23.3
Gene Summary:	<p>Thiosulfate:glutathione sulfurtransferase (TST) required to produce S-sulfanylgutathione (GSS(-)), a central intermediate in hydrogen sulfide metabolism (PubMed:24981631). Provides the link between the first step in mammalian H(2)S metabolism performed by the sulfide:quinone oxidoreductase (SQOR) which catalyzes the conversion of H(2)S to thiosulfate, and the sulfur dioxygenase (SDO) which uses GSS(-) as substrate (PubMed:24981631). The thermodynamic coupling of the irreversible SDO and reversible TST reactions provides a model for the physiologically relevant reaction with thiosulfate as the sulfane donor (PubMed:24981631).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) uses an alternate splice site in the 3' coding region that results in a frameshift and premature stop codon, compared to variant 1. The encoded protein (isoform 3) has a shorter, distinct C-terminus compared to isoform 1.</p>