

Product datasheet for **SC201485**

TSTD1 (NM_001113207) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	TSTD1 (NM_001113207) Human 3' UTR Clone
Symbol:	TSTD1
Synonyms:	KAT; TST
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_001113207
Insert Size:	174 bp
Insert Sequence:	>SC201485 3'UTR clone of NM_001113207 The sequence shown below is from the reference sequence of NM_001113207. The complete sequence of this clone may contain minor differences, such as SNPs. Blue =Stop Codon Red =Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAA GCGATCGCC TATAGAGAATGGTTGGAGAAAGAGAGT AG GCAGGAGGCAGCTTACTGATTGCCACCCCTGGCCCCCTT AATGGCCACCTTAACTAAGGGTGTGAACGGGCTGACTTGGTGAATTGGGCAACTCCTTATAGTGTGTG CACACAAAAGCATCAAATAAAGAACATTTAATCAAA ACGCGT AAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
Restriction Sites:	Sgfl-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u>NM_001113207.2</u>



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Summary: Thiosulfate:glutathione sulfurtransferase (TST) required to produce S-sulfanylglutathione (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]

Locus ID: 100131187

MW: 6.5