

## Product datasheet for **SC204222**

### MPST (NM\_001013436) Human 3' UTR Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | 3' UTR Clones   |
| Product Name:             | MPST (NM_001013436) Human 3' UTR Clone  |
| Symbol:                   | MPST  |
| Synonyms:                 | MST; TST2; TUM1   |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pMirTarget (PS100062)   |
| ACCN:                     | NM_001013436  |
| Insert Size:              | 331 bp  |
| Insert Sequence:          | >SC204222 3'UTR clone of NM_001013436<br>The sequence shown below is from the reference sequence of NM_001013436. The complete sequence of this clone may contain minor differences, such as SNPs.<br><b>Blue</b> =Stop Codon <b>Red</b> =Cloning site<br><br>GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG<br>TAACAATTGGCAGAGCTCAGAATTCAA <b>GCGATCGCC</b><br>ATCTCAGAGGGCCGGGGGAAGACCCACT <b>TGA</b> AGCTGGGCAGGACACAGGCGAGCTCAGGTGATGCCGGCC<br>ACCAGCAATGCCTGGCCTGGTAGCTCCGCTTCTGCTTTCACCAAGAGAGTGTTCCTCACTCAACTCAG<br>GTGGCATTGGGGTGACATCTCAAAGGCCAGGAATCCGTTGACTTGTGGCTGCCAGTAGGGCCGGGA<br>GGAAAGGCGGAGGCGAGCCCTGGAGGAGGGAGGCCACAACCTCCGAGCTGCCACCTGGTGTGAGCTGG<br>GGCCCCGCTCCTTTCTGTTTTATTTTTGAGGAAATAAAATAACCAAGTGCTAAA<br><b>ACGCGT</b> AAGCGGCCGCGCATCTAGATTGAAAGAAATGACCGACCAAGCGACGCCCAACCTGCCATCA<br>CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG |
| Restriction Sites:        | Sgfl-Mlul   |
| 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><a href="#">NM_001013436.4</a></u>   |



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**Summary:**

This protein encoded by this gene catalyzes the transfer of a sulfur ion from 3-mercaptopyruvate to cyanide or other thiol compounds. It may be involved in cysteine degradation and cyanide detoxification. There is confusion in literature between this protein (mercaptopyruvate sulfurtransferase, MPST), which appears to be cytoplasmic, and thiosulfate sulfurtransferase (rhodanese, TST, GeneID:7263), which is a mitochondrial protein. Deficiency in MPST activity has been implicated in a rare inheritable disorder known as mercaptolactate-cysteine disulfiduria (MCDU). Alternatively spliced transcript variants encoding same or different isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]

**Locus ID:**

4357

**MW:**

11.6