

Product datasheet for **RG202466**

MPST (NM_001013436) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MPST (NM_001013436) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MPST
Synonyms: MST; TST2; TUM1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG202466 representing NM_001013436
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTTCGCGCAGCTCTGCCGCGCTGGTGTGGCGCAATGGGTGGCGGAGGCGCTGCGGGCCCCGC
 GCGCTGGGCGCCTCTGCAGCTGCTGGACGCTCCTGGTACCTGCCGAAGCTGGGCGCGACGCGCGACG
 CGAGTTCGAGGAGCGCCACATCCCGGGCGCGCTTTCTTCGACATCGACCAGTGCAGCGACCGCACCTCG
 CCCTACGACCACATGCTGCCGGGGCCGAGCATTTCGCGGAGTACGAGCGCCCTGGGCGTGGGCGCGG
 CCACCCACGTCTGATCTACGACGCCAGCGACCGAGGGCCTCTACTCCGCCCGCGCGTCTGGTGGATGTT
 CCGCGCCTTCGGCCACCACGCGCTGCTACTGCTTGGTGGCGCCCTCCGCCACTGGCTGCGCCAGAACCTC
 CCGCTCAGCTCCGGCAAGAGCCAACCTGCTCCCGCGAGTTCGCGCTCAGCTCGACCCCGCCTTCATCA
 AGACCTACGAGGACATCAAGGAGAACCTGGAATCCCGCGCTTCCAGGTGGTGGACTCCCGAGCCACTGG
 CAGGTTCCGCGCACCGAGCCCGAGCCCGAGACGGCATTGAACCTGGCCACATCCAGGTACCGTGAAC
 ATCCCCTTACAGACTTCTGAGCCAGGAGGGGCTGGAGAAGAGCCCTGAGGAGATCCGCCATCTGTTCC
 AGGAGAAGAAAGTGGACCTGTCTAAGCCACTGGTGGCCACGTGTGGCTCTGGCGTACAGCCTGCCACGT
 GGCCTAGGGGCTACCTCTGCGCAAGCCAGACGTGCCATCTACGATGGCTCCTGGGTGGAGTGGTAC
 ATGCGCGCCCGCGCCGAGGATGTCATCTCAGAGGGCCGGGGAAGACCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Reconstitution Method:

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_001013436.4](#)

RefSeq Size: 1352 bp

RefSeq ORF: 894 bp

Locus ID: 4357

UniProt ID: [P25325](#)

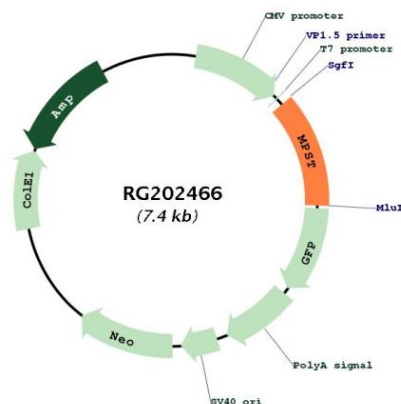
Cytogenetics: 22q12.3

Protein Families: Druggable Genome

Protein Pathways: Cysteine and methionine metabolism, Metabolic pathways

Gene 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]

Product images:



Circular map for RG202466