

Product datasheet for **RC224963**

MPST (NM_001013440) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MPST (NM_001013440) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MPST
Synonyms:	3-mercaptopyruvate sulfurtransferase; human liver rhodanese; mercaptopyruvate sulfurtransferase; MGC24539; MST; MST, TST2, MGC24539; OTTHUMP00000028670; TST2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224963 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTCGCGCAGCTCTGCCGCGCTGGTGTGCGCGCAATGGGTGGCGGAGGCGCTGCGGGCCCCGC
GCGCTGGGCGAGCTCTGCAGCTGCTGGACGCCTCCTGGTACCTGCCGAAGCTGGGGCGGACGCGCGACG
CGAGTTCGAGGAGCGCCACATCCCGGGCGCGCTTTCTTCGACATCGACCAGTGCAGCGACCCGACCTCG
CCCTACGACCACATGCTGCCCGGGCCGAGCATTTCGCGGAGTACGCAGGCCGCTGGGCGTGGGCGCG
CCACCCACGTCGTGATCTACGACGCCAGCGACAGGGCCTCTACTCCGCCCGCGCTCTGGTGGATGTT
CCGCGCCTTCGGCCACCACGCCGTGCTACTGCTTGTGGCGGCTCCGCCACTGGCTGCGCCAGAACCCT
CCGCTCAGCTCCGGCAAGAGCCAACCTGCTCCCGCGAGTTCGCGCTCAGCTCGACCCCGCTTCAATCA
AGACCTACGAGGACATCAAGGAGAACCTGGAATCCCGGCGCTTCCAGGTGGTGGACTCCCGAGCCACTGG
CAGGTTCCGCGGACCGAGCCCGAGCCCGAGACGGCATTGAACCTGGCCACATCCAGGTACCGTGAAC
ATCCCCTTACAGACTTCTGAGCCAGGAGGGGCTGGAGAAGAGCCCTGAGGAGATCCGCCATCTGTTCC
AGGAGAAGAAAGTGGACCTGTCTAAGCCACTGGTGGCCACGTGTGGCTCTGGCGTACAGCCTGCCACGT
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ATGCGCGCCCGCCGAGGATGTCATCTCAGAGGGCCGGGGAAGACCCAC

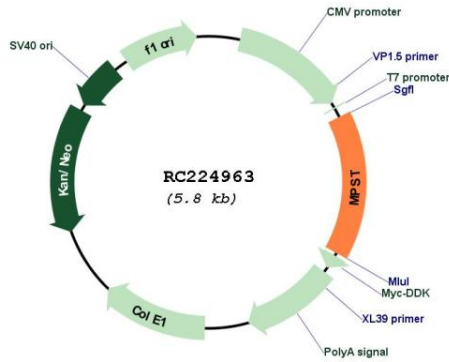
ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



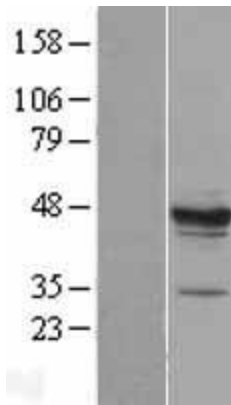
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Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex 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_001013440.1, NP_001013458.1</u>
RefSeq Size:	1626 bp
RefSeq ORF:	893 bp
Locus ID:	4357
Cytogenetics:	22q12.3
Protein Families:	Druggable Genome
Protein Pathways:	Cysteine and methionine metabolism, Metabolic pathways
MW:	33.2 kDa
Gene Summary:	<p>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]</p>

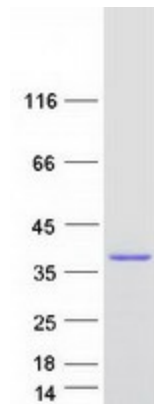
Product images:



Circular map for RC224963



Western blot validation of overexpression lysate (Cat# [LY427224]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC225408] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MPST protein (Cat# [TP324963]). The protein was produced from HEK293T cells transfected with MPST cDNA clone (Cat# RC224963) using MegaTran 2.0 (Cat# [TT210002]).