MPST cDNA Clone – Mercaptopyruvate Sulfurtransferase (Human)

PRODUCT OVERVIEW

Product Name	MPST, cDNA Clone
Full Product Name	MPST cDNA Clone
Product Gene Name	MPST cdna clone
Sequence	atggcttcgc cgcagctctg ccgcgcgctg gtgtcggcgc aatgggtggc ggaggcgctg cgggccccgc gcgctgggca gcctctgcag ctgctggacg cctcctggta cctgccgaag ctggggcgcg acgcgcgacg cgagttcgag gagcgccaca tcccgggcgc cgctttcttc gacatcgacc agtgcagcga ccgcacctcg ccctacgacc acatgctgcc cggggccgag catttcgcgg agtacgcagg ccgcctgggc gtgggcgcgg ccacccacgt cgtgatctac gacgccagcg accagggcct ctactccgcc ccgcgcgtct ggtggatgtt ccgcgccttc ggccaccacg ccgtgtcact gcttgatggc ggcctccgcc actggctgcg ccagaacctc ccgctcagct ccggcaagag ccaacctgct cccgccgagt tccgcgctta g
Molecular Weight	35,250 Da
OMIM	249650
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MPST cdna clone	MBS1267321 is a cDNA clone targeting MPST.
Other Notes	Small volumes of MPST cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MPST. It may not necessarily be applicable to this product.

NCBI GI #	14495678
NCBI GeneID	4357
NCBI Accession #	BC009450
UniProt Secondary Accession #	O75750; Q6FHN9; A8MZ34; B3KP52; J3KPV7
UniProt Related Accession #	P25325
NCBI Official Full Name	Homo sapiens mercaptopyruvate sulfurtransferase, mRNA
NCBI Official Synonym Full Names	mercaptopyruvate sulfurtransferase
NCBI Official Symbol	MPST
NCBI Official Synonym Symbols	MST; TST2; TUM1
UniProt Protein Name	3-mercaptopyruvate sulfurtransferase
Protein Family	3-mercaptopyruvate sulfurtransferase
UniProt Gene Name	MPST
UniProt Synonym Gene Names	TST2; MST

UniProt Entry Name	THTM_HUMAN
NCBI Protein Information	3-mercaptopyruvate sulfurtransferase
NCBI Summary for MPST	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]
UniProt Comments for MPST	MPST: Transfer of a sulfur ion to cyanide or to other thiol compounds. Also has weak rhodanese activity. May have a role in cyanide degradation or in thiosulfate biosynthesis. Protein type: Mitochondrial; Amino Acid Metabolism - cysteine and methionine; EC 2.8.1.2; Transferase Chromosomal Location of Human Ortholog: 22q13.1 Cellular Component: neuron projection Biological Process: cyanate catabolic process; response to toxin
Research Articles on MPST	**1.** 3-Mercaptopyruvate sulphurtransferase and not cystathionine gamma-lyase is the primary regulator of coronary artery hydrogen sulfide production and function.
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