

Product datasheet for **RC224963L4V**

MPST (NM_001013440) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	MPST (NM_001013440) Human Tagged ORF Clone Lentiviral Particle
Symbol:	MPST
Synonyms:	3-mercaptopyruvate sulfurtransferase; human liver rhodanese; mercaptopyruvate sulfurtransferase; MGC24539; MST; MST, TST2, MGC24539; OTTHUMP00000028670; TST2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001013440
ORF Size:	891 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC224963).
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	NM_001013440.1 , NP_001013458.1
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



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MW: 33.2 kDa

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]