

## Product datasheet for MC218767

### Mpst (NM\_001162493) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mpst (NM\_001162493) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Mpst  
**Synonyms:** Mst  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC218767 representing NM\_001162493  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGGATCGCC

ATGGCCGCCCCGCAACTTTCCGAGCTCTGGTGTCTGCGCAGTGGGTGGCGGAGGCTCTGAAGGCCCCGC  
 GCTCCTCACAGCCGCTGAAGTTACTGGACGCGTCTGGTACCTACCAAGCTGGGCCGCGATGCACGACG  
 CGAGTTTGAGGAGCGCCACATCCCGGGCGCCCTTCTCGACATCGATCGTTGCAGTGACCACACGTCC  
 CCCTACGACCACATGCTGCCTAACGCCACGCACCTTTGCCGACTACGCGGGCAGCTTGGGGGTGAGCGCC  
 CCACGCACGTCGTGATCTACGACGACAGTGACCAGGGCCTCTATTCCGCTCCGCGGGTCTGGTGGATGTT  
 CCGCGCCTTCGGCCACCACTCTGTGTCATTGCTGGACGGCGGCTCCGCCACTGGCTGAATCAGAACCTG  
 CCAATCAGCTCCGGCAAAGCCACTCGGAGCCCGGAGTTCCAGCGCGCAGCTCGATCCCTCTTTCATCA  
 AGACCCACGAGGACATCCTGGAGAACTTGGATGCCCGGCGCTCCAGGTGGTGGACGCCCGCGCAGCTGG  
 CCGTTTCCAAGGCACCCAGCCAGAACCAGAGATGGCATCGAACCTGGCCACATCCCTGGCTCAGTAAAC  
 ATCCCGTTCAGTGAATTCCTGACCAACGAAGCCCTGGAGAAGAGCCCAGAGGAGATCAAACGCTGTTTA  
 AGGAGAAGAAGTGGACCTGTCTAAGCCCTTGGTAGCCACGTGTGGCTCCGGTGTACACAGCCTGCCACGT  
 GGTCTGGGGCCTTCTCTGTGGCAAGTCAGACGTGCCTGTCTATGATGGCTCCTGGGTAGAGTGGTAC  
 ATGCGTGCCAGCCAGAGCATATCATCTCTGAGGGCCAGGGAAGACCCAGTGA

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII  
**ACCN:** NM\_001162493  
**Insert Size:** 894 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001162493.1</a></u> , <u><a href="#">NP_001155965.1</a></u>
<b>RefSeq Size:</b>	1292 bp
<b>RefSeq ORF:</b>	894 bp
<b>Locus ID:</b>	246221
<b>UniProt ID:</b>	<u><a href="#">Q99J99</a></u>
<b>Cytogenetics:</b>	15 E1
<b>Gene Summary:</b>	<p>Transfer of a sulfur ion to cyanide or to other thiol compounds. Also has weak rhodanese activity. Detoxifies cyanide and is required for thiosulfate biosynthesis. Acts as an antioxidant. In combination with cysteine aminotransferase (CAT), contributes to the catabolism of cysteine and is an important producer of hydrogen sulfide in the brain, retina and vascular endothelial cells. Hydrogen sulfide H<sub>2</sub>S is an important synaptic modulator, signaling molecule, smooth muscle contractor and neuroprotectant. Its production by the 3MST/CAT pathway is regulated by calcium ions.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>