

Product datasheet for MC213243

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: >MC213243 representing NM_001162493
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGGATCGCC

ATGGCCGCCCCGCAACTTTCCGAGCTCTGGTGTCTGCGCAGTGGGTGGCGGAGGCTCTGAAGGCCCCGC
 GCTCCTCACAGCCGCTGAAGTTACTGGACGCGTCTGGTACCTACCAAGCTGGGCCGCGATGCACGACG
 CGAGTTTGAGGAGCGCCACATCCCGGGCGCCCTTCTCGACATCGATCGTTGCAGTGACCACACGTCC
 CCCTACGACCACATGCTGCCTAACGCCACGCACCTTTGCCGACTACGCGGGCAGCTTGGGGGTGAGCGCC
 CCACGCACGTCGTGATCTACGACGACAGTGACCAGGGCCTCTATTCCGCTCCGCGGGTCTGGTGGATGTT
 CCGCGCCTTCGGCCACCACTCTGTGTCATTGCTGGACGGCGGCTTCGCCACTGGCTGAATCAGAACCTG
 CCAATCAGCTCCGGCAAAGCCACTCGGAGCCCGGAGTTCCAGCGCGCAGCTCGATCCCTCTTTCATCA
 AGACCCACGAGGACATCCTGGAGAACTTGGATGCCCGGCGCTTCAGGTGGTGGACGCCCGCGCAGCTGG
 CCGTTTCCAAGGCACCCAGCCAGAACCCGAGATGGCATCGAACCTGGCCACATCCCTGGCTCAGTAAAC
 ATCCCGTTCAGTGAATTCCTGACCAACGAAGCCCTGGAGAAGAGCCCAGAGGAGATCAAACGCTGTTTA
 AGGAGAAGAAGTGGACCTGTCTAAGCCCTTGGTAGCCACGTGGCTCCGGTGTACAGCCCTGCCACGT
 GGTCTGGGGCCTTCTCTGTGGCAAGTCAGACGTGCCTGTCTATGATGGCTCCTGGGTAGAGTGGTAC
 ATGCGTGCCAGCCAGAGCATATCATCTCTGAGGGCCGAGGGAAGACCCAGTGA

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII
 ACCN: NM_001162493
 Insert Size: 894 bp



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OTI Disclaimer:	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).
Components:	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).
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_001162493.1</u> , <u>NP_001155965.1</u>
RefSeq Size:	1292 bp
RefSeq ORF:	894 bp
Locus ID:	246221
UniProt ID:	<u>Q99J99</u>
Cytogenetics:	15 E1
Gene Summary:	<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 H₂S 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>