

Product datasheet for **MG218627**

Mpst (NM_001162493) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Mpst (NM_001162493) Mouse Tagged ORF Clone
 Tag: TurboGFP
 Symbol: Mpst
 Synonyms: Mst
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >MG218627 representing NM_001162493
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGCCGCCCCGCAACTTTCCGAGCTCTGGTGTCTGCGCAGTGGGTGGCGGAGGCTCTGAAGCCCCGC
 GCTCCTCACAGCCGCTGAAGTTACTGGACGCGTCTGGTACCTACCCAAGCTGGCCCGGATGCACGACG
 CGAGTTTGAGGAGCGCCACATCCCGGGCGCCCTTCTTCGACATCGATCGTTGCAGTGACCACACGTCC
 CCCTACGACCACATGCTGCCTAACGCCACGCACTTTGCCGACTACGCGGGCAGCTTGGCGTGAGCGCC
 CCACGCACGTCGTGATCTACGACGCGAGTGACCAGGGCCCTATTCGGCTCCGCGGTCTGGTGGATGTT
 CCGCGCCTTCGGCCACCACTCTGTGTCATTGCTGGACGGCGGCTTCGGCCACTGGCTGAATCAGAACCTG
 CCAATCAGCTCCGGCAAAAGCCACTCGGAGCCCGGAGTTTCAGCGCGCAGCTCGATCCCTCTTTCATCA
 AGACCCACGAGGACATCCTGGAGAACTTGGATGCCCGGCGCTTCCAGGTGGTGGACGCCCGCGCAGCTGG
 CCGTTTCCAAGGCACCCAGCCAGAACCCGAGATGGCATCGAACCTGGCCACATCCCTGGCTCAGTAAAC
 ATCCCGTTCACTGAATTCCTGACCAACGAAGGCCCTGGAGAAGAGCCAGAGGAGATCAAACGCCTGTTTA
 AGGAGAAGAAGGTGGACCTGTCTAAGCCCTTGGTAGCCACGTGTGGCTCCGGTGTACAGCCTGCCACGT
 GGTCTGGGGCCCTTCTCTGTGGCAAGTCAGACGTGCCTGTCTATGATGGCTCCTGGGTAGAGTGGTAC
 ATGCGTGCCAGCCAGAGCATATCATCTCTGAGGGCCGAGGAAGACCCAG

AG**CGGACCG**ACGCGTACGCGCCGCTCGAG - GFP Tag - GTTTAA



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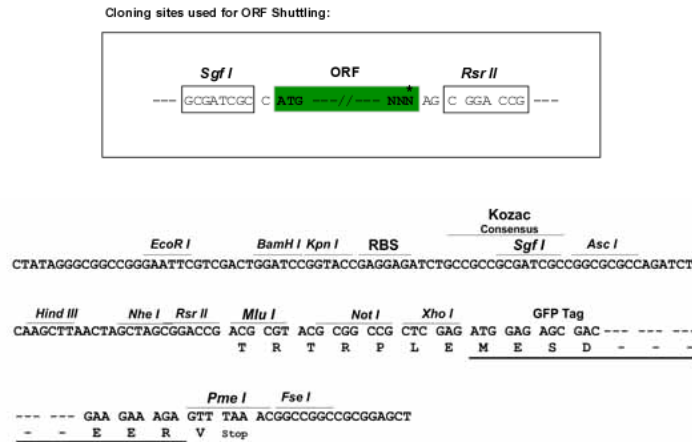
Protein Sequence: >MG218627 representing NM_001162493
 Red=Cloning site Green=Tags(s)

MAAPQLFRALVSAQWVAEALKAPRSSQPLKLLDASWYLPKLGRDARREFEERHIPGAAFFDIDRCSDHST
 PYDHMLPNATHFADYAGSLGVSAAHVVIYDGSQDGPYSAPRVWMMFRAF GHHSVSLLDGGFRHWNQNL
 PISSGKSHSEPAEFSAQLDPSFIKTHEDILENLDARRFQVVDARAAGRFQGTQPEPRDGIPEGHIPGSVN
 IPFTEFLTNEGLEKSPEEIKRLFKEKKVDLSKPLVATCGSGVTACHVVLGAFLCGKSDVPVYDGSWVEWY
 MRAQPEHIISEGRGKTQ

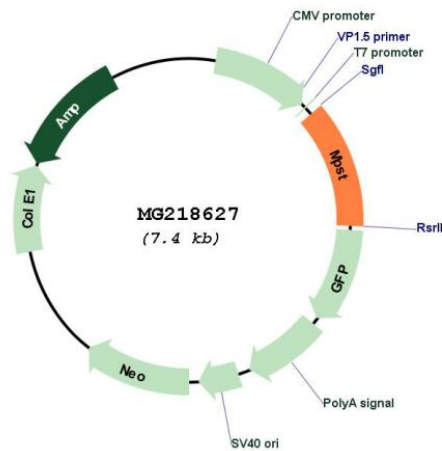
SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_001162493

ORF Size: 891 bp

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.
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:	NM_001162493.1 , NP_001155965.1
RefSeq Size:	1292 bp
RefSeq ORF:	894 bp
Locus ID:	246221
UniProt ID:	Q99J99
Cytogenetics:	15 E1
Gene Summary:	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(2)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]