

Product datasheet for **RG236269**

MASA (ENOPH1) (NM_001292017) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MASA (ENOPH1) (NM_001292017) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ENOPH1
Synonyms: E1; MASA; MST145; mtnC
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236269 representing NM_001292017.
Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATCCAGGCCGTGGTAGATAATGTGTGCTGGCAGATGTCCCTGGATCGAAAGACCCTGCCTCAAA
CAGCTGCAGGGCCACATGTGGAGGGCGGCATTCACAGCTGGGCGCATGAAAGCAGAGTTCTTTGCAGAT
GTAGTTCCAGCAGTCAGGAAGTGGAGAGAGGGCCGAATGAAGGTGTACATCTATTCCTCAGGAGTGTG
GAGGCACAGAACTGTTATTCGGGCATTCTACGGAGGGAGATATTCCTGAGCTTGTGATGGTCACTTT
GATACCAAGATTGGACACAAAGTAGAGAGTAAAGTTACCGAAAGATTGCAGACAGCATTGGGTGCTCA
ACCAACAACATTTGTTTCTGACAGATGTTACTCGAGAGGCCAGTCTGCTGAGGAAGCAGATGTGCAC
GTAGCTGTGGTGGTGGAGACCAGGCAACGCAGGATTAACAGATGATGAGAAGACTTACTACAGCCTCATC
ACATCCTTCAGTGAACATACTGCCTTCTCAACC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG236269
Blue=ORF Red=Cloning site Green=Tag(s)

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MIQAVVDNVCWQMSLDRKTTALKQLQGHMWRAAFTAGRMKAIEFFADVVPVAVRWREAGMKVYIYSSGSV
EAQKLLFGHSTEGDILELVDGHFDTKIGHKVESESYRKIADSIGCSTNNILFLTDVTREASAAEEADVH
VAVVVRPGNAGLTDDEKTYYSLITFSSELYLPSST
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLVHSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSDHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
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Restriction Sites: SgfI-MluI



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| 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). |
| RefSeq: | NM_001292017.2 |
| RefSeq Size: | 2162 bp |
| RefSeq ORF: | 522 bp |
| Locus ID: | 58478 |
| UniProt ID: | Q9UHY7 |
| Cytogenetics: | 4q21.22 |
| Protein Pathways: | Cysteine and methionine metabolism |
| MW: | 19.6 kDa |
| Gene Summary: | Bifunctional enzyme that catalyzes the enolization of 2,3-diketo-5-methylthiopentyl-1-phosphate (DK-MTP-1-P) into the intermediate 2-hydroxy-3-keto-5-methylthiopentyl-1-phosphate (HK-MTPenyl-1-P), which is then dephosphorylated to form the acireductone 1,2-dihydroxy-3-keto-5-methylthiopentene (DHK-MTPene).[UniProtKB/Swiss-Prot Function] |