

## 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:** MASA  
**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)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATCCAGGCCGTGGTAGATAATGTGTGCTGGCAGATGTCCCTGGATCGAAAGACCACTGCACTCAA
CAGCTGCAGGGCCACATGTGGAGGGCGGCATTCACAGCTGGGCGCATGAAAGCAGAGTCTTTGCAGAT
GTAGTTCCAGCAGTCAGGAAGTGGAGAGAGGGCCGAATGAAGGTGTACATCTATTCCTCAGGAGTGTG
GAGGCACAGAACTGTTATTCGGGCATTCTACGGAGGGAGATATTCCTGAGCTTGTGATGGTCACTTT
GATACCAAGATTGGACACAAAGTAGAGAGTAAAGTTACCGAAAGATTGCAGACAGCATTGGGTGCTCA
ACCAACAACATTTGTTTCTGACAGATGTACTCGAGAGGCCAGTGTCTGAGGAAGCAGATGTGCAC
GTAGCTGTGGTGGTGGAGACCAGGCAACGCAGGATTAACAGATGATGAGAAGACTTACTACAGCCTCATC
ACATCCTTCAGTGAACATACTGCCTTCTCAACC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG236269  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MIQAVVDNVCWQMSLDRKTTALKQLQGHMWRAAFTAGRMKAIEFFADVVPVAVRWREAGMKVYIYSSGSV
EAQKLLFGHSTEGDILELVDGHFDTKIGHKVESESYRKIADSIGCSTNNILFLTDVTREASAAEEADVH
VAVVVRPGNAGLTDDEKTYYSLITFSSELYLPSST
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLVHSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** SgfI-MluI



**Cloning Scheme:**


**ACCN:** NM\_001292017

**ORF Size:** 519 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).

**RefSeq:** [NM\\_001292017.2](#)

**RefSeq Size:** 2162 bp

**RefSeq ORF:** 522 bp

**Locus ID:** 58478

**UniProt ID:** [Q9UHY7](#)

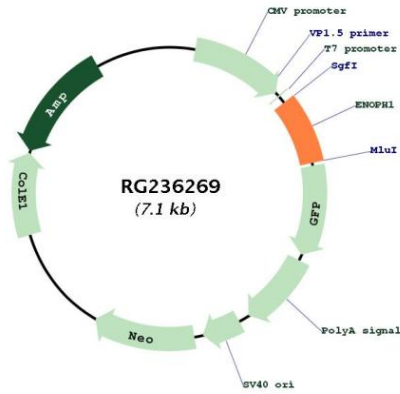
**Cytogenetics:** 4q21.22

**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]

Product images:



Circular map for RG236269