

## Product datasheet for RC236269

### 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:** Myc-DDK  
**Symbol:** ENOPH1  
**Synonyms:** E1; MASA; MST145; mtnC  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC236269 representing NM\_001292017  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATCCAGGCCGTGGTAGATAATGTGTGCTGGCAGATGTCCTGGATCGAAAGACCACTGCACTCAAAC  
AGTCGAGGGCCACATGTGGAGGGCGGCATTACAGCTGGCGCATGAAAGCAGAGTTCTTGCAGATGT  
AGTTCCAGCAGTCAGGAAGTGGAGAGAGCCGGAATGAAGGTGTACATCTATTCCCTAGGGAGTGTGGAG  
GCACAGAAACTGTTATTTCGGGCATTCTACGGAGGGAGATATTCTTGAGCTTGTTGATGGTCACTTTGATA  
CCAAGATTGGACACAAAGTAGAGAGTGAAGATTACCGAAAGATTGCAGACAGCATTGGGTGCTCAACCAA  
CAACATTTGTTTCTGACAGATGTTACTCGAGAGGCCAGTGTCTGCTGAGGAAGCAGATGTGCACGTAGCT  
GTGGTGGTGGAGACCAGGCAACGCAGGATTAACAGATGATGAGAAGACTTACTACAGCCTCATCACATCCT  
TCAGTGAATACTGCCTTCTCAACC

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC236269 representing NM\_001292017  
Red=Cloning site Green=Tags(s)

MIQAVVDNVCWQMSLDRKTTALKQLQGHMWRAAFTAGRMKAIEFFADVVPVAVRKWREAGMKVYIYSSGSVE  
AQKLLFGHSTEGDILELVDGHFDTKIGHKVESESyrKIADSIGSTNNILFLTDVTREASAAEEADVHVA  
VVVVRPGNAGLTDDEKTYSLITFSSELYLPSST

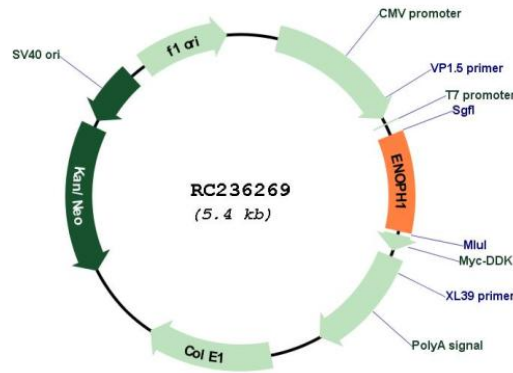
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



[View online »](#)

**Cloning Scheme:**

**Plasmid Map:**


**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.

<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>	<a href="#">NM_001292017.2</a>
<b>RefSeq Size:</b>	2162 bp
<b>RefSeq ORF:</b>	522 bp
<b>Locus ID:</b>	58478
<b>UniProt ID:</b>	<a href="#">Q9UHY7</a>
<b>Cytogenetics:</b>	4q21.22
<b>Protein Pathways:</b>	Cysteine and methionine metabolism
<b>MW:</b>	19.6 kDa
<b>Gene Summary:</b>	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]