

Product datasheet for **SC334163**

MASA (ENOPH1) (NM_001292017) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MASA (ENOPH1) (NM_001292017) Human Untagged Clone
Tag:	Tag Free
Symbol:	MASA
Synonyms:	E1; MASA; MST145; mtnC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001292017, the custom clone sequence may differ by one or more nucleotides

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ATGATCCAGGCCGTGGTAGATAATGTGTGCTGGCAGATGTCCCTGGATCGAAAGACCACTGCACTCAAAC
AGCTGCAGGGCCACATGTGGAGGGCGGCATTACAGCTGGGCGCATGAAAGCAGAGTTCTTTGCAGATGT
AGTTCCAGCAGTCAGGAAGTGGAGAGAGGCCGGAATGAAGGTGTACATCTATTCTCAGGGAGTGTGGAG
GCACAGAAACTGTTATTCGGGCATTCTACGAGGGAGATATTCTTGAGCTTGTGATGGTCACTTTGATA
CCAAGATTGGACACAAAGTAGAGAGTCAAAGTTACCGAAAGATTGCAGACAGCATTGGGTGCTCAACCAA
CAACATTTTGTCTGACAGATGTTACTCGAGAGGCCAGTGCTGCTGAGGAAGCAGATGTGCACGTAGCT
GTGGTGGTGAGACCAGGCAACGCAGGATTAACAGATGATGAGAAGACTTACTACAGCCTCATCACATCCT
TCAGTGAACCTATACCTGCCTTCTCAACCTAG
```

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001292017
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).



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Reconstitution Method:

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_001292017.1](#), [NP_001278946.1](#)

RefSeq Size: 2162 bp

RefSeq ORF: 522 bp

Locus ID: 58478

UniProt ID: [Q9UHY7](#)

Cytogenetics: 4q21.22

Protein Pathways: Cysteine and methionine metabolism

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-methylthiopentenyl-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]
Transcript Variant: This variant (2) uses an alternate splice site in the 5' terminal exon and initiates translation at a downstream start codon, compared to variant 1. It encodes isoform 2, which has a shorter N-terminus, compared to isoform 1.