

# ENOPH1 cDNA

Catalog Number: ATGD0252

## PRODUCT INFORMATION

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**Catalog number**

ATGD0252

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_067027.1

**Alternative Names**

E1, MASA, MST145, mtnC

**mRNA Refseq**

NM\_021204.4

**OMIM****Chromosome location**

4q21.22

## PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

786bp

**Preparation before usage**

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

**Vector description**

This shuttle vector contains the complete ORF. It is inseted Nde I to BamH I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

**Cloning Vector**

pATGen (puc19-derived cloning vector)

**General Description**

Bifunctional enzyme that catalyzes the enolization of 2, 3-diketo-5-methylthiopentyl-1-phosphate (DK-MTP-1-P)

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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).

## DATA

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### Sequence nucleotides

```
ATGGTCGTGCTTTTCGGTCCCCGCCGAAGTCACCGTGATCCTGTTAGATATCGAAGGTACCACAACCCCGATTGCTTTTCGTGA
AGGACATTTTATTTTCTTACATCGAAGAAAATGTTAAAGAGTATCTGCAGACACATTGGGAAGAAGAGGAGTGCCAGCAGGA
TGTCAGTCTTTTGAGGAAACAGGCTGAAGAGGACGCCACCTGGATGGGGCTGTTCCCTATCCCTGCAGCATCTGGGAATGG
AGTGGATGATCTGCAACAGATGATCCAGGCCGTGGTAGATAATGTGTGCTGGCAGATGTCCCTGGATCGAAAGACCACTGC
ACTCAAACAGCTGCAGGGCCACATGTGGAGGGCGGCATTACAGCTGGGCGCATGAAAGCAGAGTTCTTTGCAGATGTAG
TTCCAGCAGTCAGGAAGTGGAGAGAGGGCCGGAATGAAGGTGTACATCTATTCCTCAGGGAGTGTGGAGGCACAGAACTG
TTATTCGGGCATTCTACGGAGGGAGATATTCTTGAGCTTGTTGATGGTCACTTTGATACCAAGATTGGACACAAAGTAGAGA
GTGAAAGTTACCGAAAGATTGCAGACAGCATTGGGTGCTCAACCAACAACATTTTGTCTGACAGATGTTACTCGAGAGGC
CAGTGCTGCTGAGGAAGCAGATGTGCACGTAGCTGTGGTGGTGAGACCAGGCAACGCAGGATTAACAGATGATGAGAAGA
CTTACTACAGCCTCATCATCCTTCAGTGAACCTATACCTGCCTTCCTCAACCTAG
```

### Transaction Sequence

```
MVVLSPAEV TVILLDIEGT TPIAFVKDI LFPYIEENVK EYLQTHWEEE ECQQDVSLLRKQAEEDAHL D GAVPIPAASG
NGVDDLQQMI QAVVDNVCWQ MSLDRKTTAL KQLQGHMWRAAFTAGRMKAE FFADVVPVR KWREAGMKVY
IYSSGSVEAQ KLLFGHSTEG DILELVDGHFDTKIGHKVES ESYRKIADSI GCSTNNILFL TDVTREASAA EADVHVAVV
VRPGNAGLTDDEKTYSLIT SFSELYLPSS T
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