

ENOPH1 cDNA

Catalog Number: ATGD0252

PRODUCT INFORMATION

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

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

Sequence nucleotides

ATGGTCGTGCTTTTCGGTCCCCGCCGAAGTCACCGTGATCCTGTTAGATATCGAAGGTACCACAACCCCGATTGCTTTTCGTGA
AGGACATTTTATTTCTTACATCGAAGAAAATGTTAAAGAGTATCTGCAGACACATTGGGAAGAAGAGGAGTGCCAGCAGGA
TGTCAGTCTTTTGAGGAAACAGGCTGAAGAGGACGCCACCTGGATGGGGCTGTTCTTATCCCTGCAGCATCTGGGAATGG
AGTGGATGATCTGCAACAGATGATCCAGGCCGTGGTAGATAATGTGTGCTGGCAGATGTCCCTGGATCGAAAGACCACTGC
ACTCAAACAGCTGCAGGGCCACATGTGGAGGGCGGCATTACAGCTGGGCGCATGAAAGCAGAGTTCTTTGCAGATGTAG
TTCCAGCAGTCAGGAAGTGGAGAGAGGGCCGGAATGAAGGTGTACATCTATTCTCAGGGAGTGTGGAGGCACAGAACTG
TTATTCGGGCATTCTACGGAGGGAGATATTCTTGAGCTTGTTGATGGTCACTTTGATACCAAGATTGGACACAAAGTAGAGA
GTGAAAGTTACCGAAAGATTGCAGACAGCATTGGGTGCTCAACCAACAACATTTTGTCTGACAGATGTTACTCGAGAGGC
CAGTGCTGCTGAGGAAGCAGATGTGCACGTAGCTGTGGTGGTGAGACCAGGCAACGCAGGATTAACAGATGATGAGAAGA
CTTACTACAGCCTCATCACATCCTTCAGTGAACCTATACCTGCCTTCCTCAACCTAG

Transaction Sequence

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