

DPM1 cDNA

Catalog Number: ATGD0064

PRODUCT INFORMATION

Catalog number

ATGD0064

Product type

cDNA

Species

Human

NCBI Accession No.

NP_003850.1

Alternative Names

CDGIE, MPDS

mRNA Refseq

NM_003859.1

OMIM

603503

Chromosome location

20q13.13

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

783bp

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 BamH I to Xho 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

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Dolichol-phosphate mannose (Dol-P-Man) serves as a donor of mannosyl residues on the luminal side of the endoplasmic reticulum (ER). Lack of Dol-P-Man results in defective surface expression of GPI-anchored proteins. Dol-P-Man is synthesized from GDP-mannose and dolichol-phosphate on the cytosolic side of the ER by the enzyme dolichyl-phosphate mannosyltransferase. Human DPM1 lacks a carboxy-terminal transmembrane domain and signal sequence and is regulated by DPM2

DATA

Sequence nucleotides

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ATGGCCTCCT TGGGAAGTCAG TCGTAGTCCT CGCAGGTCTC GGCGGGAGCT GGAAGTGCGC AGTCCACGAC
AGAACAATA TTCGGTGCTT TTACCTACCT ACAACGAGCG CGAGAACCTG CCGCTCATCG TGTGGCTGCT
GGTAAAAGC TTCTCCGAGA GTGGAATCAA CTATGAAATT ATAATCATAG ATGATGGAAG CCCAGATGGA
ACAAGGGATG TTGCTGAACA GTTGGAGAAG ATCTATGGGT CAGACAGAAT TCTTCTAAGA CCACGAGAGA
AAAAGTTGGG ACTAGGAACT GCATATATTC ATGGAATGAA ACATGCCACA GGAAACTACA TCATTATTAT
GGATGCTGAT CTCTCACACC ATCCAAAATT TATTCCTGAA TTTATTAGGA AGCAAAAGGA GGGTAATTTT GATATTGTCT
CTGGAAGCTG CTACAAAGGA AATGGAGGTG TATATGGCTG GGATTTGAAA AGAAAAATAA TCAGCCGTGG
GGCCAATTTT TAACTCAGA TCTTGCTGAG ACCAGGAGCA TCTGATTTAA CAGGAAGTTT CAGATTATAC
CGAAAAGAAG TTCTAGAGAA ATTAATAGAA AAATGTGTTT CTAAAGGCTA CGTCTTCCAG ATGGAGATGA
TTGTTCGGGC AAGACAGTTG AATTATACTA TTGGCGAGGT TCCAATATCA TTTGTGGATC GTGTTTATGG
TGAATCCAAG TTGGGAGGAA ATGAAATAGT ATCTTTCTTG AAAGGATTAT TGAATCTTTT TGCTACTACA TAA
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Transaction Sequence

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MASLEVSRSR RRSRRELEVR SPRQNKYSVL LPTYNERENL PLIVWLLVKS FSESGINYEI IIIDDGSPDG TRDVAEQLEK
IYGSDRILLR PREKKLGLGT AYIHGMKHAT GNYIIIMDAD LSHHPKFIPE FIRKQKEGNF DIVSGTRYKG NGGVYGWDLK
RKIISRGANF LTQILLRPGA SDLTGSFRLY RKEVLEKLIE KCVSKGYVFQ MEMIVRARQL NYTIGEVPIIS FVDRVYGESK
LGGNEIVSFL KGLLTLFATT
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