DCTD cDNA

Catalog Number: ATGD0029

PRODUCT INFORMATION

Catalog number
ATGD0029

Product type
cDNA

Species
Human

NCBI Accession No.
NP_001912.2

Alternative Names

mRNA Refseq
NM_001921.2

OMIM
607638

Chromosome location
4q35.1

PRODUCT SPECIFICATION

Formulation
Lyophilized

Storage
Store the plasmid at -20C.

cDNA Size
537bp

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
DCTD (deoxycytidylate deaminase), also known as dCMP deaminase, is a 178 amino acid allosteric enzyme that

exists as a homohexamer and belongs to the cytidine and deoxycytidylate deaminase protein family. using zinc as a cofactor, DCTD catalyzes the deamination of dCMP to duMP, thereby producing the nucleotide substrate (duMP) that is used by thymidylate synthase.

DATA

Sequence nucleotides

ATGAGTGAAG TTTCCTGCAA GAAACGGGAC GACTATTTGG AATGGCCAGA GTATTTTATG GCTGTGGCCT
TCTTATCAGC ACAGAGAAGC AAAGATCCAA ATTCCCAGGT CGGCGCCTGC ATCGTGAATT CAGAAAACAA
GATTGTCGGG ATTGGGTACA ATGGGATGCC AAATGGGTGC AGTGATGACG TGTTGCCTTG GAGAAGGACA
GCAGAGAATA AGCTGGACAC CAAATACCCG TACGTGTGCC ATGCGGAGCT GAATGCCATC ATGAACAAAA
ATTCGACCGA TGTGAAAGGC TGTAGTATGT ATGTTGCCTT GTTCCCTTGT AATGAATGCG CTAAGCTCAT
CATCCAGGCA GGTATAAAAG AAGTGATTTT CATGTCTGAT AAATACCATG ATAGTGACGA GGCAACTGCT
GCGAGGCTCC TGTTTAATAT GGCCGGGGTG ACATTCCGGA AATTCATACC GAAGTGCAGC AAGATTGTCA
TTGACTTTGA TTCAATTAAC AGCAGACCGA GTCAAAAGCT TCAGTGA

Transaction Sequence

MSEVSCKKRD DYLEWPEYFM AVAFLSAQRS KDPNSQVGAC IVNSENKIVG IGYNGMPNGC SDDVLPWRRT AENKLDTKYP
YVCHAELNAI MNKNSTDVKG CSMYVALFPC NECAKLIIQA GIKEVIFMSD KYHDSDEATA ARLLFNMAGV TFRKFIPKCS
KIVIDFDSIN SRPSQKLQ