

DCK cDNA

Catalog Number: ATGD0063

PRODUCT INFORMATION

Catalog number

ATGD0063

Product type

cDNA

Species

Human

NCBI Accession No.

NP_000779.1

Alternative Names

mRNA Refseq

NM_000788.2

OMIM

125450

Chromosome location

4q13.3-q21.1

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

DCK is a key enzyme in the salvage of deoxyribonucleosides and in the activation of clinically relevant

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nucleoside analogues. This protein is responsible for the 5'-phosphorylation of purine and pyrimidine deoxynucleosides to the corresponding monophosphates using ATP or uTP as phosphate donors. Deficiency of this enzyme activity is associated with resistance to antiviral and anticancer chemotherapeutic agents, whereas increased enzyme activity is associated with increased activation of these compounds to cytotoxic nucleoside triphosphate derivatives.

DATA

Sequence nucleotides

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ATGGCCACCC CGCCCAAGAG AAGCTGCCCC TCTTTCTCAG CCAGCTCTGA GGGGACCCGC ATCAAGAAAA
TCTCCATCGA AGGGAACATC GCTGCAGGGA AGTCAACATT TGTGAATATC CTAAACAAT TGTGTGAAGA
TTGGGAAGTG GTTCCTGAAC CTGTTGCCAG ATGGTGCAAT GTTCAAAGTA CTCAAGATGA ATTTGAGGAA
CTTACAATGT CTCAGAAAAA TGGTGGGAAT GTTCTTCAGA TGATGTATGA GAAACCTGAA CGATGGTCTT
TTACCTTCCA AACATATGCC TGTCTCAGTC GAATAAGAGC TCAGCTTGCC TCTCTGAATG GCAAGCTCAA
AGATGCAGAG AAACCTGTAT TATTTTTTGA ACGATCTGTG TATAGTGACA GGTATATTTT TGCATCTAAT TTGTATGAAT
CTGAATGCAT GAATGAGACA GAGTGGACAA TTTATCAAGA CTGGCATGAC TGGATGAATA ACCAATTTGG
CCAAAGCCTT GAATTGGATG GAATCATTTA TCTTCAAGCC ACTCCAGAGA CATGCTTACA TAGAATATAT
TTACGGGGAA GAAATGAAGA GCAAGGCATT CCTCTTGAAT ATTTAGAGAA GCTTCATTAT AAACATGAAA
GCTGGCTCCT GCATAGGACA CTGAAAACCA ACTTCGATTA TCTTCAAGAG GTGCCTATCT TAACACTGGA
TGTTAATGAA GACTTTAAAG ACAAATATGA AAGTCTGGTT GAAAAGGTCA AAGAGTTTTT GAGTACTTTG TGA
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Transaction Sequence

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MATPPKRSCP SFSASSEGR IKKISIEGNI AAGKSTFVNI LKQLCEDWEV VPEPVARWCN VQSTQDEFEE LTMSQKNGGN
VLQMMYEKPE RWSFTFQTYA CLSRIRAQLA SLNGKLDKAE KPVLFERSV YSDRYIFASN LYSECMNET EWTIYQDWH
WMNNQFGQSL ELDGIIYLQA TPETCLHRIY LRGRNEEQGI PLEYLEKLHY KHESWLLHRT LKTNFDYLQE VPILTLDVNE
DFKDKYESLV EKVKEFLSTL
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