

CDK1 cDNA

Catalog Number: ATGD0111

PRODUCT INFORMATION

Catalog number

ATGD0111

Product type

cDNA

Species

Human

NCBI Accession No.

NP_001777.1

Alternative Names

CDC2, CDC28A, P34CDC2

mRNA Refseq

NM_001786.4

OMIM

116940

Chromosome location

10q21.1

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

894bp

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 inserted 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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The protein encoded by CDK1 is a member of the Ser/Thr protein kinase family. This protein is a catalytic subunit of the highly conserved protein kinase complex known as M-phase promoting factor (MPF), which is essential for G1/S and G2/M phase transitions of eukaryotic cell cycle. Mitotic cyclins stably associate with this protein and function as regulatory subunits. The kinase activity of this protein is controlled by cyclin accumulation and destruction through the cell cycle. The phosphorylation and dephosphorylation of this protein also play important regulatory roles in cell cycle control. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

DATA

Sequence nucleotides

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ATGGAAGATTATAACCAAAATAGAGAAAATTGGAGAAGGTACCTATGGAGTTGTATAAGGGTAGACACAAAACACTACAGGTC  
AAGTGGTAGCCATGAAAAAAATCAGACTAGAAAGTGAAAGAGGAAGGGGTTCTAGTACTGCAATTGGAAATTCTCTATT  
AAAGGAACCTCGTCATCCAATATAGTCAGTCTCAGGATGTGCTTATGCAGGATTCCAGGTTATATCTCATCTTGAGTTTC  
TTTCCATGGATCTGAAGAAATACTTGGATTCTATCCCTCTGGTCAGTACATGGATTCTTCACTTGTAAAGAGTTATTATACC  
AAATCCTACAGGGGATTGTGTTTGTCACTCTAGAACAGAGTTCTCACAGAGACTTAAACCTCAAATCTTGTAAAGAGTTATTATACC  
AAAGGAACAATTAAACTGGCTGATTTGGCCTGCCAGAGCTTTGGAATACCTATCAGAGTATATACACATGAGGTAGTAA  
CACTCTGGTACAGATCTCCAGAAGTATTGCTGGGGTCAGCTCGTTACTCAACTCCAGTTGACATTGGAGTATAGGCACCAT  
ATTGCTGAACTAGCAACTAACGAAACCACCTTTCCATGGGGATTCAAGAAATTGATCAACTCTTCAGGATTTCAGAGCTTGG  
GCACTCCCATAATGAAGTGCGCAGAAGTGGAAATCTTACAGGACTATAAGAATACATTCCAAATGGAACCAAGAGGAAG  
CCTAGCATCCCAGTCAAAACTGGATGAAATGGCTTGGATTGCTCTGAAAATGTTAATCTATGATCCAGCCAAACGAA  
TTTCTGGAAAATGGCACTGAATCATCCATATTAAATGATTGGACAATCAGATTAAGAAGATGTAG
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Transaction Sequence

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MEDYTKIEKI GEGTYGVVYK GRHKTTGQVV AMKKIRLESE EEGVPSTAIR EISLLKELRH PNIVSLQDVL MQDSRLYLYIF  
EFLSMDLKKY LDSIPPGQYM DSSLVKSILY QILQGIVFCH SRRVLHRDLK PQNLLIDDKG TIKLADFGLA RAFGIPIRVY  
THEVVTLWYR SPEVLLGSAR YSTPVDIWSI GTIFAEALATK KPLFHGDSEI DQLFRIFRAL GTPNNEVWPE VESLQDYKNT  
FPWKPGSLA SHVKNLDELDNLLSKMLIY DPAKRISGKM ALNHPYFNDL DNQIKKM
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