AK4 cDNA

Catalog Number: ATGD0216

PRODUCT INFORMATION

Catalog number
ATGD0216

Product type
cDNA

Species
Human

NCBI Accession No.
NP_982289.1

Alternative Names
AK 4, AK3, AK3L1, AK3L2

mRNA Refseq
NM_203464.2

OMIM
103030

Chromosome location
1p31.3

PRODUCT SPECIFICATION

Formulation
Lyophilized

Storage
Store the plasmid at -20C.

cDNA Size
672bp

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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AK4 encodes a member of the adenylate kinase family of enzymes. The encoded protein is localized to the mitochondrial matrix. Adenylate kinases regulate the adenine and guanine nucleotide compositions within a cell by catalyzing the reversible transfer of phosphate group among these nucleotides. Five isozymes of adenylate kinase have been identified in vertebrates. Expression of these isozymes is tissue-specific and developmentally regulated. A pseudogene for this gene has been located on chromosome 17. Three transcript variants encoding the same protein have been identified for this gene. Sequence alignment suggests that the gene defined by NM_013410, NM_203464, and NM_001005353 is located on chromosome 1.

DATA

Sequence nucleotides

ATGGCTTCCAAACTCCTGCGCGCGGTCATCCTCGGGCCGCCCGGCTCGGGCAAGGGCACCGTGTGCCAGAGGATCGCCCA
GAACTTTGGTCTCCAGCATCTCTCCAGCGGCCACTTCTTGCGGGAGAACATCAAGGCCAGCACCGAAGTTGGTGAGATGGC
AAAGCAGTATATAGAGAAAAGTCTTTTGGTTCCAGACCATGTGATCACACGCCTAATGATGTCCGAGTTGGAGAACAGGCGT
GGCCAGCACTGGCTCCTTGATGGTTTTCCTAGGACATTAGGACAAGCCGAAGCCCTGGACAAAATCTGTGAAGTGGATCTA
GTGATCAGTTTGAATATTCCATTTGAAACACTTAAAGATCGTCTCAGCCGCCGTTGGATTCACCCTCCTAGCGGAAGGGTAT
ATAACCTGGACTTCAATCCACCTCATGTACATGGTATTGATGACGTCACTGGTGAACCGTTAGTCCAGCAGGAGGATGATAA
ACCCGAAGCAGTTGCTGCCAGGCTAAGACAGTACAAAGACGTGGCAAAGCCAGTCATTGAATTATACAAGAGCCGAGGAGT
GCTCCACCAATTTTCCGGAACGGAGACGAACAAAATCTGGCCCTACGTTTACACACTTTTCTCAAACAAGATCACACCTATTC
AGTCCAAAGAAGCATATTGA

Transaction Sequence

MASKLLRAVI LGPPGSGKGT VCQRIAQNFG LQHLSSGHFL RENIKASTEV GEMAKQYIEK SLLVPDHVIT RLMMSELENR
RGQHWLLDGF PRTLGQAEAL DKICEVDLVI SLNIPFETLK DRLSRRWIHP PSGRVYNLDF NPPHVHGIDD VTGEPLVQQE
DDKPEAVAAR LRQYKDVAKP VIELYKSRGV LHQFSGTETN KIWPYVYTLF SNKITPIQSK EAY