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# **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

#### **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

