

APRT cDNA

Catalog Number: ATGD0011

PRODUCT INFORMATION

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ATGD0011

Product type

cDNA

Species

Human

NCBI Accession No.

NP_000476.1

Alternative Names

AMP, APRTD

mRNA Refseq

NM_000485.2

OMIM

102600

Chromosome location

16q24

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

543bp

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 Nde 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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APRT (adenine phosphoribosyltransferase) is a 180 amino acid protein that localizes to the cytoplasm and belongs to the purine/pyrimidine phosphoribosyltransferase family. Existing as a homodimer, APRT functions to catalyze the formation of inorganic pyrophosphate and AMP from adenine and 5-phosphoribosyl-1-pyrophosphate (PRPP), a reaction that is essential for both purine metabolism and AMP biosynthesis. It also produces adenine as a by-product of the polyamine biosynthesis pathway

DATA

Sequence nucleotides

```
ATGGCCGACT CCGAGCTGCA GCTGGTTGAG CAGCGGATCC GCAGCTTCCC CGACTTCCCC ACCCCAGGCG
TGGTATTCAG GGACATCTCG CCCGTCCTGA AGGACCCCGC CTCCTTCCGC GCCGCCATCG GCCTCCTGGC
GCGACACCTG AAGGCGACCC ACGGGGGCCG CATCGACTAC ATCGCAGGCC TAGACTCCCG AGGCTTCCTC
TTTGGCCCCT CCCTGGCCCA GGAGCTTGA CTGGGCTGCG TGCTCATCCG AAAGCGGGGG AAGCTGCCAG
GCCCCACTCT GTGGGCCTCC TATCCCTGG AGTACGGGAA GGCTGAGCTG GAGATTCAGA AAGACGCCCT
GGAGCCAGGA CAGAGGGTGG TCGTCGTGGA TGATCTGCTG GCCACTGGTG GAACCATGAA CGCTGCCTGT
GAGCTGCTGG GCCGCCTGCA GGCTGAGGTC CTGGAGTGCG TGAGCCTGGT GGAGCTGACC TCGCTTAAGG
GCAGGGAGAA GCTGGCACCT GTACCCTTCT TCTCTCTCCT GCAGTATGAG TGA
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Transaction Sequence

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MADSELQLVE QRIRSFDFP TPGVVFRDIS PVLKDPASFR AAIGLLARHL KATHGGRIDY IAGLDSRGFL FGPSLAQELG
LGCVLIRKRG KLPGPTLWAS YSLEYGKAEL EIQKDALEPG QRVVVVDDLL ATGGTMNAAC ELLGRLQAEV LECVSLVELT
SLKGREKLAP VPFSSLLQYE
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