

NHP2 cDNA

Catalog Number: ATGD0172

PRODUCT INFORMATION

Catalog number

ATGD0172

Product type

cDNA

Species

Human

NCBI Accession No.

NP_060308.1

Alternative Names

DKCB2, NHP2P, NOLA2

mRNA Refseq

NM_017838.3

OMIM

606470

Chromosome location

5q35.3

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

462bp

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

NHP2 cDNA

Catalog Number: ATGD0172

NHP2 is a member of the H/ACA snoRNPs (small nucleolar ribonucleoproteins) gene family. snoRNPs are involved in various aspects of rRNA processing and modification and have been classified into two families: C/D and H/ACA. The H/ACA snoRNPs also include the DKC1, NOLA1 and NOLA3 proteins. These four H/ACA snoRNP proteins localize to the dense fibrillar components of nucleoli and to coiled (Cajal) bodies in the nucleus. Both 18S rRNA production and rRNA pseudouridylation are impaired if any one of the four proteins is depleted. The four H/ACA snoRNP proteins are also components of the telomerase complex. This gene encodes a protein related to *Saccharomyces cerevisiae* Nhp2p. Alternative splicing results in multiple transcript variants.

DATA

Sequence nucleotides

```
ATGACCAAATAAAGGCAGATCCCGACGGGCCCCGAGGCTCAGGCGGAGGCGTGTTCGGGGAGCGCACCTACCAGGAGC
TGCTGGTCAACCAGAACCCCATCGCGCAGCCCCTGGCTTCTCGCCGCTCACGCGGAAGCTCTACAAATGCATCAAGAAAG
CGGTGAAGCAGAAGCAGATTCGGCGCGGGGTGAAAGAGGTTAGAAATTTGTCAACAAAGGAGAAAAAGGGATCATGGTT
TTGGCAGGAGACACACTGCCATTGAGGTATACTGCCATCTCCAGTCATGTGTGAGGACCGAAATTTGCCCTATGTCTATA
TCCCCTCTAAGACGGACCTGGGTGCAGCCGAGGCTCCAAGCGCCCCACCTGTGTGATAATGGTCAAGCCCCATGAGGAG
TACCAGGAGGCTTACGATGAGTGCCTGGAGGAGGTGCAGTCCCTGCCCTACCCCTATGA
```

Transaction Sequence

```
MTKIKADPDG PEAQAEACSG ERTYQELLVN QNPQAQPLAS RRLTRKLYKC IKKAVKQKQI RRGVKEVQKF VNKGEKGIMV
LAGDTLPIEV YCHLPVMCED RNLPLYVYIPS KTDLGAAAGS KRPTCVIMVK PHEEYQEAYD ECLEEVQSLP LPL
```