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# 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**



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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

ATGACCAAAATAAAGGCAGATCCCGACGGGCCCGAGGCTCAGGCGGAGGCGTGTTCCGGGGAGCCCCTACCAGGAGC TGCTGGTCAACCAGAACCCCATCGCGCAGCCCCTGGCTTCTCGCCGCCTCACGCGGAAGCTCTACAAATGCATCAAGAAAG CGGTGAAGCAGAAGCAGAAGCAGAAGCAGAAAGAGGGTTCAGAAAATTTGTCAACAAAGGAGAAAAAAGGGATCATGGTT TTGGCAGGAGCACACTGCCCATTGAGGTATACTGCCATCTCCCAGTCATGTGTGAGGACCGAAATTTGCCCTATGTCTATA TCCCCTCTAAGACGGACCTGGGTGCAGCCGCAGGCTCCAAGCGCCCCACCTGTGTGATAATGGTCAAGCCCCATGAGGAG TACCAGGAGGCTTACGATGAGTGCCTGGAGGAGGTGCAGTCCCTGCCCCTACCCCTATGA

## **Transaction Sequence**

MTKIKADPDG PEAQAEACSG ERTYQELLVN QNPIAQPLAS RRLTRKLYKC IKKAVKQKQI RRGVKEVQKF VNKGEKGIMV LAGDTLPIEV YCHLPVMCED RNLPYVYIPS KTDLGAAAGS KRPTCVIMVK PHEEYQEAYD ECLEEVQSLP LPL

