

Product datasheet for **RC203033**

NHP2 (NM_017838) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NHP2 (NM_017838) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NHP2
Synonyms: DKCB2; NHP2P; NOLA2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC203033 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCAAAATAAAGGCAGATCCCACGGGCCGAGGCTCAGGCGGAGGCGTGTTCGGGGAGCGCACCT
ACCAGGAGCTGCTGGTCAACCAGAACCCCATCGCGCAGCCCTGGCTTCTCGCCGCTCACGCGGAAGCT
CTACAAATGCATCAAGAAAGCGGTGAAGCAGAAGCAGATTCGGCGCGGGGTGAAAGAGGTTCAGAAATTT
GTCAACAAAGGAGAAAAAGGGATCATGGTTTTGGCAGGAGACACACTGCCATTGAGGTACTGCCATC
TCCAGTCATGTGTGAGGACCGAAATTTGCCCTATGTCTATATCCCTCTAAGACGGACCTGGGTGCAGC
CGCAGGCTCCAAGCGCCCACTGTGTGATAATGGTCAAGCCCATGAGGAGTACCAGGAGGCTTACGAT
GAGTGCCTGGAGGAGGTGACGTCCTGCCCTACCCCTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203033 protein sequence
Red=Cloning site Green=Tags(s)
MTKIKADPDGPEAQAEACSGERTYQELLVNQNPIAQPLASRRLTRKLYKCIKKAVKQKQIRRGVKEVQKF
VNGKEGIMVLGDTLPIEVYCHLPVMCEDRNLPPVYIPSKTDLGAAAGSKRPTCIVMVKPHEEYQEAAYD
ECLEEVQSLPLPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6076_a02.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017838

ORF Size: 459 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_017838.4](#)

RefSeq Size: 867 bp

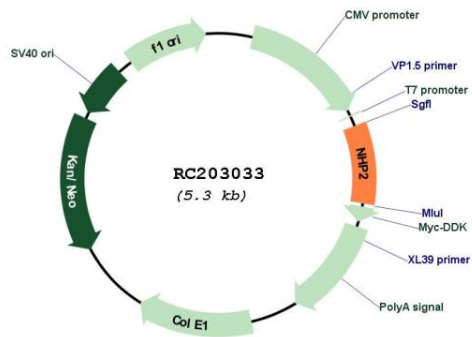
RefSeq ORF: 462 bp

Locus ID: 55651

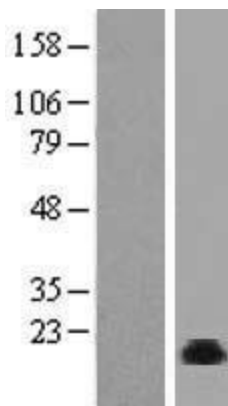
UniProt ID: [Q9NX24](#)
Cytogenetics: 5q35.3
Domains: Ribosomal_L7Ae
MW: 17.2 kDa

Gene Summary: This gene 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. [provided by RefSeq, Oct 2008]

Product images:



Circular map for RC203033



Western blot validation of overexpression lysate (Cat# [LY413510]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203033 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).