

## Product datasheet for SC111338

### NHP2 (NM\_017838) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NHP2 (NM\_017838) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** NHP2  
**Synonyms:** DKCB2; NHP2P; NOLA2  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_017838 edited  
 ATGACCAAAATAAAGGCAGATCCCAGCGGGCCGAGGCTCAGGCGGAGGCGTGTCCGGG  
 GAGCGCACCTACCAGGAGCTGCTGGTCAACCAGAACCCCATCGCGCAGCCCTGGCTTCT  
 CGCCGCCTCACGCGGAAGCTCTACAAATGCATCAAGAAAGCGGTGAAGCAGAAGCAGATT  
 CGGCGCGGGGTGAAAGAGGTTCAAGAAATTTGTCAACAAAGGAGAAAAAGGATCATGGTT  
 TTGGCAGGAGACACACTGCCATTGAGGTATACTGCCATCTCCAGTCATGTGTGAGGAC  
 CGAAATTTGCCCTATGTCTATATCCCCTAAGACGGACCTGGGTGCAGCCGAGGCTCC  
 AAGCGCCCCACCTGTGTGATAATGGTCAAGCCCCATGAGGAGTACCAGGAGGCTTACGAT  
 GAGTGCCTGGAGGAGGTGCAGTCCCTGCCCTACCCCTATGA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_017838 unedited  
 GTAATACGACTACTATAGGGCGGCCGGAATTCGGCACGAGGCCTCGTGCCGAATTCGG  
 CACGAGGGCCTAAAGCTGTGGACCGCGTGGGCTCGCTCCCTGGGACTAGGTTTCAGCGG  
 CCGCTGCGATGACCAAAATAAAGGCAGATCCCAGCGGGCCGAGGCTCAGGCGGAGGCGT  
 GTTCCGGGAGCGCACCTACCAGGAGCTGCTGGTCAACCAGAACCCCATCGCGCAGCCCC  
 TGGCTTTCGCGCCTCACGCGGAAGCTCTACAAATGCATCAAGAAAGCGGTGAAGCAGA  
 AGCAGATTCGGCGGGGTGAAAGAGGTTCAAGAAATTTGTCAACAAAGGAGAAAAAGGGA  
 TCATGGTTTTGGCAGGAGACACACTGCCATTGAGGTATACTGCCATCTCCAGTCATGT  
 GTGAGGACCGAAATTTGCCCTATGTCTATATCCCCTAAGACGGACCTGGGTGCAGCCG  
 CAGGCTCCAAGCGCCCCACCTGTGTGATAATGGTCAAGCCCCATGAGGAGTACCAGGAGG  
 CTTACGATGAGTGCCTGGAGGAGGTGCAGTCCCTGCCCTACCCCTATGAGGGGCTCCGG  
 TAGCACCTGGGCACCTGCCGCTGGAAGCTATTGGGCTGGCAGCAGGACGACTGGCTGTCC  
 TCCTGCCACCCACACTGACGGCATCTCCAGTTCCCAAGCACGCCTTCTNCCAGGC  
 AGCTCTACAGCCCTTTATGAAGGTATGTAGTCTTCTGCCATCAGTGCCATTTCTCTGTAA  
 AACTAAAGCTGTTCCAAGATGTGGGGTGGGAAAGTAAATGCTAGACCAAAAAAAAAAAAA  
 AAACCTGACTCTAGATTGCGCCCGGTCATAGCTGTNTCTGAACAGATCCCGGTGGGCA  
 TCCTGTGACCCTCCCAGGCCTNTCCTGGCCTG



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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_017838 unedited GAACCGCGGGCCGAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTGGTCTTAGCATTTA CTTTCCCCACCCACATTCTTGGAACAGCCTTTAGTTCTACAGGAAATGGCACTGATGGA CAGAAGACTAGCATTACCTTCATGAAAGGGCTGTAGAGCTGCCTGGGAAGAAGGCGTGC CTTGGGGAAGTGGGAAGATGCCGTCAGTGTGGGTGGGCAGGAGGACAGCCAGTCGTCCTG CTGCCAGCCCAATAGCTTCCAGCGGCAGGTGCCAGGTGCTACCGGAGCCCTCATAGGG GTAGGGGCAGGGACTGCACCTCCTCCAGGCACTCATCGTAAGCCTCCTGGTACTCCTCAT GGGGCTTGACCATTATCACACAGGTGGGGCGCTTGGAGCCTGCGGCTGCACCCAGGTCCG TCTTAGAGGGGATATAGACATAGGGCAAATTTTCGGTCCTCACACATGACTGGGAGATGGC AGTATACCTCAATGGGCAGTGTGTCTCCTGCCAAAACCATGATCCCTTTTTCTCCTTTGT TGACAAATTTCTGAACCTCTTTACCCCGCGCGAATCTGCTTCTGCTTACCCTTTCT TGATGCATTTGTAGAGCTTCCGCGTGAGGCGGCGAGAAGCCAGGGGCTGCGCGATGGGT TCTGGTTGACCAGCAGCTCCTGGTAGGTGCGCTCCCCGGACACGCTNCGCCTGAGCCTC GGGCCCGTCGGGATCTGCCTTTATTTTGGTCATCGCAGCGGCCGCTGAAACCTAGTCCCA GGAAGCGAGCCACGCTCCACAGCTTTAGCCCTCGTGCCGAAATTCGACCAGCCTC GTGCCGAATCCCGGCCGCTATATTGATCGTATTACAAATCTGACGGTTACTAACGAGTC TGCTTATTTGACCTCCACGTCCCGCT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_017838
<b>Insert Size:</b>	720 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_017838.3</a> , <a href="#">NP_060308.1</a>
<b>RefSeq Size:</b>	867 bp
<b>RefSeq ORF:</b>	462 bp
<b>Locus ID:</b>	55651
<b>UniProt ID:</b>	<a href="#">Q9NX24</a>
<b>Cytogenetics:</b>	5q35.3
<b>Domains:</b>	Ribosomal_L7Ae

**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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer protein (isoform a).