

## Product datasheet for **SC302797**

### NHP2 (NM\_001034833) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NHP2 (NM_001034833) Human Untagged Clone
Tag:	Tag Free
Symbol:	NHP2
Synonyms:	DKCB2; NHP2P; NOLA2
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001034833, the custom clone sequence may differ by one or more nucleotides ATGACCAAATAAAGGCAGATCCCGACGGGCCGAGGCTCAGGCGGAGGCGTGTTCGGG GAGCGCACCTACCAGGAGCTGCTGGTCAACCAGAACCCCATCGCGCAGCCCTGGCTTCT CGCCGCCTCACGCGGAAGCTCTACAAATGCATCAAGAAAGCGGTGAAGCAGAAGCAGATT CGGCGCGGGTAAAGAGGTTTCAGAAATTTGTCAACAAAGGAGAAAAAGGGACCTGGGTG CAGCCGACGGCTCCAAGCGCCCCACCTGTGTGA
Restriction Sites:	Please inquire
ACCN:	NM_001034833
OTI Disclaimer:	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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<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>



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RefSeq: [NM\\_001034833.1](#), [NP\\_001030005.1](#)

RefSeq Size: 761 bp

RefSeq ORF: 273 bp

Locus ID: 55651

UniProt ID: [Q9NX24](#)

Cytogenetics: 5q35.3

**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 (2) lacks an alternate coding exon compared to variant 1, that causes a frameshift. The resulting protein (isoform b) is shorter and has a distinct C-terminus compared to isoform a.