

## Product datasheet for **SC112226**

### **NPPC (NM\_024409) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NPPC (NM_024409) Human Untagged Clone
Tag:	Tag Free
Symbol:	NPPC
Synonyms:	CNP; CNP2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL6</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_024409, the custom clone sequence may differ by one or more nucleotides

```
ATGCATCTCTCCAGCTGCTGGCCTGCGCCCTGCTGCTCACGCTGCTCTCCCTCCGGCCCTCCGAAGCCA  
AGCCCGGGGCGCCGCGAAGGTCCCGCAACCCCGCCGCGCAGAGGAGCTGGCCGAGCCGCAGGCTGCGGG  
CGGCGGTGAGAAGAAGGGCGACAAGGCTCCCGGGGCGGGGGCGCAATCTCAAGGGCGACCGTTCGCGA  
CTGCTCCGGGACCTGCGCGTGGACACCAAGTCCGCGGCAGCGTGGGCTCGCCTTCTGCAAGAGCACCCCA  
ACGCGCGCAAATACAAAGGAGCCAACAAGAAGGGCTTGCCAAGGGCTGCTTCGGCCTCAAGCTGGACCG  
AATCGGCTCCATGAGCGGCTGGGATGTTAG
```



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_024409 unedited  AAATCTTCACCGCCGTTGNCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATA  AGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCC  GCGAATTCGGCACGAGGGCGGGCTCAGAGCGCACCCAGCCGGCGCCGCGCAGCACTGGGAC  CCTGCTCGCCCTGCAGCCAGCCAGCCTGCTCCGCATCCCCCTGCTGGTCTGCCCGCCA  CCTGCGCGCCCTCGTCCCGCCCGTGTGCGCCCTCGACCCAGCGGCACCATGCATCTC  TCCCAGCTGCTGGCCTGCGCCCTGCTGCTCAGCTGCTCTCCCTCCGGCCCTCCGAAGCC  AAGCCCCGGGCGCCGCGAAGTCCCGCAACCCCGCGCAGAGGAGCTGGCCGAGCCG  CAGGCTGCGGGCGGGTTCAGAAGAAGGGCGACAAGGCTCCCGGGGGCGGGGCGCCAAT  CTCAAGGGCGACCGGTGCGGACTGCTCCGGGACCTGCGCGTGGACACCAAGTCGCGGGCA  GCGTGGGCTCGCTTCTGCAAGAGCACCCCAACGCGCGCAAAATACAAAGGAGCCAACAAG  AAGGGCTGTCCAAGGGCTGCTTCGGCCTCAAGCTGGACCGAATCGGCTCCATGAGCGGC  CTGGGATGTTAGTGCGGCGCCCTGGCGCGGATCGGGAAGTGGCTCCGTTGTGCTGAG  GTCATCTTTGGTCATCAGCCTCCAGCATCTGAAAACACCTCCAACGCAATGTGGCTTTTA  CATTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTT  ATTATTATTTGGGAGGGGTTGGGATTTATAAATTTGGGTNTTTAAAAATGAAAAATA</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_024409 unedited  GCTACTGAGTACGTGGCCGCTTCTANGATCGTTTTTTTTTTTTTTTTTTTTCATGGAAGAC  TTTTTTTTTTTACATTTTCTTTAACTAGTTAGGACAAAAACATTACAATGATTGACTTC  TTTCATTTAGTTACATAAATAAAATTTTATAAATATCTCTTTATAAACAATATAAATAG  CTTTACAACATAAATACATTTATGCATGACATGAATTTACAAACAGCAATGTTTTACAGC  TGGTTCTGTCAGTCTCTTAAAACTGTCCCTTGCATCAAGTCGGTGTAGGTGTGTGTGT  TTCATGTATATAATATATATAATATATAAATTTTATTTTTTATTTTAAAAAAACAAA  TAATAAATCACAAACCCCTCCCAAAATAATAAATAAACAGCTGGTGTGTATTCCCA  GTACCAGGAAAAAAGAAAGAAAGAAATGTAAGGCCACATTGCGTTGGAGGTG  TTTCCAGATGCTGGAGGCTGATGAATCAAAGATGACCTCAGCACAAACGGAGCCAGTTCCC  GATCCGCCGCCAGGGGGCGCCGCACTAACATCCCAGGCCGCTCATGGAGCCGATTCCGGTC  CAGCTTGAGGCCAAGCAGCCCTTGGACAAGCCCTTCTGTTGGTCCTTTGTATTTGCC  CGCTTGGGGGTGCTCTTGCAAAAGGCGAGCCACGCTGCCCGGACTGGGTGTCCACGC  GCCAGTCCCCGGAGCAGTCGCGACCGGTGCGCCCTGAGATTGCCGCCCGCCCGCCGGGA  GACCTGGTGGCCTTTCTTCTGACCGGCCCGGAANCCTGAGGCGTCGGACAGCTCCCT  CTGGCGGACGGGGTTTCGCGAGAACTCTCGGCGCGCCCGGACTTGGGCTTCAGGAGGC  CNGGAGGGAAAAC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_024409
<b>Insert Size:</b>	1200 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).

**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\\_024409.1](#), [NP\\_077720.1](#)

**RefSeq Size:** 381 bp

**RefSeq ORF:** 381 bp

**Locus ID:** 4880

**UniProt ID:** [P23582](#)

**Cytogenetics:** 2q37.1

**Domains:** ANP

**Protein Families:** Secreted Protein

**Gene Summary:** This gene encodes a preproprotein that is proteolytically processed to generate multiple protein products. These products include the cardiac natriuretic peptides CNP-53, CNP-29 and CNP-22, which belong to the natriuretic family of peptides. The encoded peptides exhibit vasorelaxation activity in laboratory animals and elevated levels of CNP-22 have been observed in the plasma of chronic heart failure patients. [provided by RefSeq, Oct 2015]