

## Product datasheet for MR227595

### Nppc (NM\_010933) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nppc (NM\_010933) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Nppc  
**Synonyms:** C; CNP; Ib; Ibab  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR227595 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCACCTCTCCAGCTGATCGCCTGCGCCTGCTGCTCGCGCTACTCTCGCTCCGGCCCTCTGAAGCCA  
AGCCCGGGACACCACCGAAGGTCCCGAGAACCCCGCCAGGGGAGGAGCTGGCGGATCCCAGGCAGCTGG  
TGGCAATCAGAAAAGGGTGACAAGACTCCAGGCAGCGGGGAGCCAATCTCAAGGGAGACCGATCGCGA  
CTGCTCCGGGACCTGCGTGTGGACCAAGTCCCGGGCTGCTTGGGCCCGCCTTCTGCACGAGCACCCCA  
ACGCGCGCAAATACAAAGCGGCAACAAGAAGGGCTTGTCCAAAGGCTGCTTTGGCCTCAAGCTGGACCG  
GATCGGCTCCATGAGCGGTCTGGGATGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR227595 protein sequence  
Red=Cloning site Green=Tags(s)  
MHLSQLIACALLLALLSLRPSEAKPGTPPKVPRTPPGEELADSSQAAGGNQKKGDKTPGSGGANLKGDRSR  
LLRDLRVDTKSRAAWARLLHEHPNARKYKGGNKKGLSKGCFGLKLDRIQSMSGLGC

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



[View online »](#)

**Cloning Scheme:**



**ACCN:** NM\_010933

**ORF Size:** 381 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\\_010933.5](#), [NP\\_035063.1](#)

**RefSeq Size:** 1042 bp

**RefSeq ORF:** 381 bp

**Locus ID:** 18159

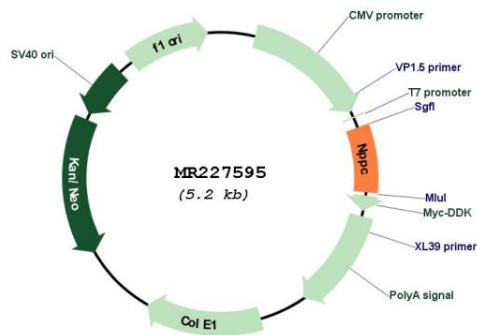
UniProt ID: [Q61839](#)

Cytogenetics: 1 43.98 cM

MW: 13.3 kDa

**Gene Summary:** This gene encodes a member of the natriuretic peptide family. Natriuretic peptides are involved in the control of blood pressure, extracellular fluid volume and electrolyte homeostasis. The encoded protein also plays a role in sensory neuron bifurcation, and is a critical regulator of endochondral bone growth. The encoded protein is a ligand for the natriuretic peptide receptor B, and is synthesized as a preprohormone which is cleaved to produce a mature peptide. Mutations in this gene are associated with dwarfism resulting from impaired endochondral ossification. [provided by RefSeq, Apr 2011]

**Product images:**



Circular map for MR227595