

Product datasheet for **MG227595**

Nppc (NM_010933) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nppc (NM_010933) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Nppc
Synonyms: C; CNP; lb; lbab
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG227595 representing NM_010933
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCACCTCTCCAGCTGATCGCCTGCGCCCTGCTGCTCGCGCTACTCTCGCTCCGGCCCTCTGAAGCCA
 AGCCCGGGACACCACCGAAGGTCCCGAGAACCCCGCCAGGGGAGGAGCTGGCGGATTCAGGCAGCTGG
 TGGCAATCAGAAAAGGGTGACAAGACTCCAGGCAGCGGGGAGCCAATCTCAAGGGAGACCGATCGCGA
 CTGCTCCGGGACCTGCGTGTGGACCAAGTCCCGGGCTGCTTGGGCCCGCCTTCTGCACGAGCACCCCA
 ACGCGCGCAAATACAAAGGCGGCAACAAGAAGGGCTTGTCCAAAGGCTGCTTTGGCCTCAAGCTGGACCG
 GATCGGCTCCATGAGCGGTCTGGGATGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG227595 representing NM_010933
 Red=Cloning site Green=Tags(s)

MHLSQLIACALLLALLSLRPSEAKPGTPPKVPRTPPGEELADLSQAAGGNQKKGDKTPGSGGANLKGDRSR
 LLRDLRVDTKSRAAWARLLHEHPNARKYKGNKKGLSKGCFGLKLDRIIGSMSGLGC

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

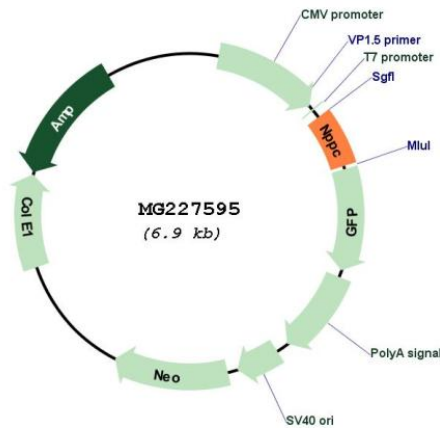


[View online »](#)

Cloning Scheme:



Plasmid Map:



ACCN: NM_010933

ORF Size: 378 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:	<ol style="list-style-type: none">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:	1043 bp
RefSeq ORF:	381 bp
Locus ID:	18159
UniProt ID:	Q61839
Cytogenetics:	1 43.98 cM
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]