

Product datasheet for **RG211250**

NPPC (NM_024409) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NPPC (NM_024409) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NPPC
Synonyms: CNP; CNP2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG211250 representing NM_024409
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCATCTCTCCAGCTGCTGGCCTGCGCCCTGCTGCTCACGCTGCTCTCCCTCCGGCCCTCCGAAGCCA
 AGCCCGGGGCGCCGCGAAGGTCCCGCAACCCCGCCGGCAGAGGAGCTGGCCGAGCCGAGGCTGCGGG
 CGGCGGTGAGAAGAAGGGCGACAAGGCTCCCGGGGGCGGGGGCGCAATCTCAAGGGCGACCGTCCGA
 CTGCTCCGGGACCTGCGGTGGACCAAGTCGCGGGCAGCGTGGGCTCGCCTTCTGCAAGAGCACCCCA
 ACGCGCGCAAATACAAAGGAGCCAACAAGAAGGGCTTGTCCAAGGCTGCTTCGGCCTCAAGCTGGACCG
 AATCGGCTCCATGAGCGCCTGGGATGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG211250 representing NM_024409
 Red=Cloning site Green=Tags(s)

MHLSQLLACALLLTLRLPSEAKPGAPPKVPRTPPAEELAEPQAAGGGQKKGDKAPGGGANLKGDRSR
 LLRDLRVDTKSRAAWARLLQEHPNARKYKGANKKGLSKGCFGLKLDRIGSMSGLGC

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:



ACCN: NM_024409

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:
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.

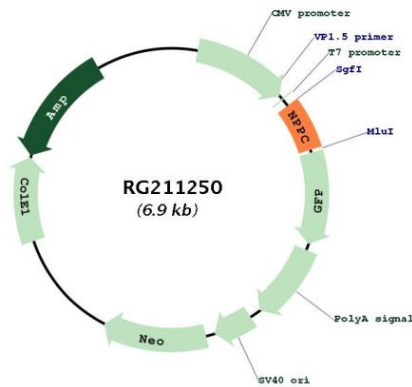
RefSeq: [NM_024409.4](#)

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]

Product images:



Circular map for RG211250