

Product datasheet for **RG219453**

Natriuretic Peptide Receptor C (NPR3) (NM_000908) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Natriuretic Peptide Receptor C (NPR3) (NM_000908) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Natriuretic Peptide Receptor C
Synonyms:	ANP-C; ANPR-C; ANPRC; C5orf23; GUCY2B; NPR-C; NPRC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG219453 representing NM_000908
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGTCTCTGCTGGTGTCTCACTTTCTCCCCGTGCGTACTACTCGGCTGGGCGTTGCTGGCCGGCGCA
 CCGGTGGCGGTGGCGTTGGCGGCCGGCGGTGGCGCGGCATAGCGCGCGGACGCCAGGAGAGAGAGGC
 GCTGCCGCCACAGAAGATCGAGGTGCTGGTGTACTGCCCCAGGATGACTCGTACTTGTTCCTCACTCACC
 CGGGTGGCGGCCGATCGAGTATGCTCTGCGCAGCGTGGAGGGCAACGGGACTGGGAGGCGGCTTCTGC
 CGCCGGGCACTCGCTTCCAGGTGGCTTACGAGGATTCAGACTGTGGGAACCGTGCCTTTCAGCTTGGT
 GGACCGGTGGCGGCCGCGGGCGCCAAGCCAGACCTATCCTGGGGCCAGTGTGCGAGTATGCAGCA
 GCGCCAGTGGCCCGCTTGCATCGCACTGGGACCTGCCATGCTGTGGCTGGGGCGCTGGCCGCTGGCT
 TCCAGCACAAGGACTCTGAGTACTCGCACCTCACGCGGTGGCGCCGCCTACGCCAAGATGGGCGAGAT
 GATGCTCGCCCTGTTCCGCCACCACCCTGGAGCCGCGTGCCTGGTCTACAGCGACGACAAGCTGGAG
 CGGAAGTCTACTTCACCCTCGAGGGGGTCCACGAGGTCTTCCAGGAGGAGGGTTTGCACACGTCCATCT
 ACAGTTTCGACGAGACCAAGACTTGGATCTGGAAGACATCGTGCCAATATCCAGGCCAGTGAGAGAGT
 GGTGATCATGTGTGCGAGCAGTGACACCATCCGGAGCATCATGCTGGTGGCGCACAGGCATGGCATGACC
 AGTGGAGACTACGCCCTTCAACATTGAGCTCTTCAACAGCTCTTCTATGGAGATGGCTCATGGAAGA
 GAGGAGACAAACAGACTTTGAAGCTAAGCAAGCATACTCGTCCCTCCAGACAGTCACTCTACTGAGGAC
 AGTGAAACCTGAGTTTGAAGTTTTCCATGGAGGTGAAAAGTTTCAAGTTGAGAAACAAGGGCTCAATATG
 GAGGATTACGTTAACATGTTTGTGAAGGATCCACGATGCCATCCTCTACGTCTTGGCTCTACATG
 AAGTACTCAGAGCTGGTTACAGCAAAAAGGATGGAGGGAAAATTATACAGCAGACTTGAACAGAACATT
 TGAAGGTATCGCCGGCCAGGTGTCCATAGATGCCAACGGAGACCGATATGGGGATTTCTCTGTGATTGCC
 ATGACTGATGTGGAGGCCGGCACCCAGGAGTTATTGGTATTATTTGGAAAAGAAGGTCGTTTTGAAA
 TGCGGCCGAATGTCAAATATCCTTGGGGCCCTTTAAAAGTGAAGTAGATGAAAACCGAATTGTAGAGCA
 TACAAACAGCTCTCCCTGCAAATCATGTGGCCTAGAAGAATCGGCAGTGACAGGAATTGTCGTGGGGCT
 TTACTAGGAGCTGGCTTGTAAATGGCCTTCTACTTTTTCAGGAAGAAATACAGAATAACCATTGAGAGGC
 GAACCCAGCAAGAAGAAAGTAACCTTGGAAAACATCGGGAATTACGGGAAGATCCATCAGATCCCATT
 TTCAGTAGCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_000908

ORF Size: 1620 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

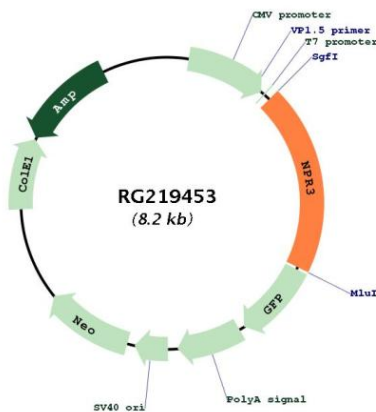
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_000908.4](#)
 RefSeq Size: 2651 bp
 RefSeq ORF: 1623 bp
 Locus ID: 4883
 UniProt ID: [P17342](#)
 Cytogenetics: 5p13.3
 Domains: ANF_receptor
 Protein Families: Druggable Genome, Transmembrane
 Gene Summary:

This gene encodes one of three natriuretic peptide receptors. Natriuretic peptides are small peptides which regulate blood volume and pressure, pulmonary hypertension, and cardiac function as well as some metabolic and growth processes. The product of this gene encodes a natriuretic peptide receptor responsible for clearing circulating and extracellular natriuretic peptides through endocytosis of the receptor. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Feb 2011]

Product images:



Circular map for RG219453