

Product datasheet for **RC234392**

Natriuretic Peptide Receptor C (NPR3) (NM_001204375) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Natriuretic Peptide Receptor C (NPR3) (NM_001204375) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Natriuretic Peptide Receptor C
Synonyms:	ANP-C; ANPR-C; ANPRC; C5orf23; GUCY2B; NPR-C; NPRC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234392 representing NM_001204375
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGTCTCTGCTGGTGTCTCACTTTCTCCCCGTGCTACTACTCGGCTGGGCGTTGCTGGCCGGCGCA
 CCGGTGGCGGTGGCGTTGGCGGCCGGCGGGTGGCGCGGCATAGCGCGCGGACGCCAGGAGAGAGAGGC
 GCTGCCGCCACAGAAGATCGAGGTGCTGGTGTACTGCCCCAGGATGACTCGTACTTGTTCCTCACTACC
 CGGGTGGCGGCCGATCGAGTATGCTCTGCGCAGCGTGGAGGGCAACGGGACTGGGAGGCGGCTTCTGC
 CGCCGGGCACTCGCTTCCAGGTGGCTTACGAGGATTACAGACTGTGGGAACCGTGCCTTTCAGCTTGGT
 GGACCGGTGGCGGCCGCGGGCGCCAAGCCAGACCTATCCTGGGGCCAGTGTGCGAGTATGCAGCA
 GCGCCAGTGGCCCGCTTGCATCGCACTGGGACCTGCCATGCTGTGGCTGGGGCGCTGGCCGCTGGCT
 TCCAGCACAAGGACTCTGAGTACTCGCACCTCACGCGGTGGCGCCGCCTACGCCAAGATGGGCGAGAT
 GATGCTCGCCCTGTTCCGCCACCACCCTGGAGCCGCGTGCCTGGTCTACAGCGACGACAAGCTGGAG
 CGGAAGTCTACTTCACCTCGAGGGGGTCCACGAGGTCTCCAGGAGGAGGGTTTGACACGTCATCT
 ACAGTTTCGACGAGACCAAGACTTGGATCTGGAAGACATCGTGCCAATATCCAGGCCAGTGAGAGAGT
 GGTGATCATGTGTGCGAGCAGTGACACCATCCGGAGCATCATGCTGGTGGCGCACAGGCATGGCATGACC
 AGTGGAGACTACGCTTCTTCAACATTGAGCTCTTCAACAGCTCTTCTATGGAGATGGCTCATGGAAGA
 GAGGAGACAAACGACTTTGAAGCTAAGCAAGCATACTCGTCCCTCCAGACAGTCACTCTACTGAGGAC
 AGTGAAACCTGAGTTTGAAGAAGTTTCCATGGAGGTGAAAAGTTACAGTTGAGAAACAAGGGCTCAATG
 GAGGATTACGTTAACATGTTTGTGAAGGATCCACGATGCCATCCTCCTACGCTTGGCTCTACATG
 AAGTACTCAGAGCTGGTTACAGCAAAAAGGATGGAGGGAAAATTATACAGCAGACTTGAACAGAACAT
 TGAAGGTATCGCCGGCAGGTGTCCATAGATGCCAACGGAGACCGATATGGGGATTTCTCTGTGATTGCC
 ATGACTGATGTGGAGGCGGCCACCCAGGAGTTATTGGTATTATTTGGAAAAGAAGGTCGTTTTGAAA
 TGCGGCCGAATGTCAAATATCCTTGGGGCCCTTAAAAGTGAAGATAGATGAAAACCGAATTGTAGAGCA
 TACAAACAGCTCTCCCTGCAAATCATCAGGTGGCCTAGAAGAAATCGGCAGTGACAGGAATTGCTGGGG
 GCTTTACTAGGAGCTGGCTTGTAAATGGCCTTCTACTTTTTAGGAAGAAATACAGAATAACCATGAGA
 GGCAACCCAGCAAGAAGAAAGTAACTTGGAAAACATCGGAATTACGGGAAGATTCCATCAGATCCCA
 TTTTTCAGTAGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234392 representing NM_001204375
 Red=Cloning site Green=Tags(s)

MPSLLVLTFSPCVLLGWALLAGGTGGGGVGGGGGAGIGGGRQEREALPPQKIEVLVLLPQDDSYLFSLT
 RVRPAIEYALRSVEGNGTGRRLLPPGTRFQVAYEDSDCGNRALFSLVDRVAAAARGAKPDLILGPVCEYAA
 APVARLASHWDLPLMSAGALAAFGQHKDSEYSHLTRVAPAYAKMGEMMLALFRHHHWSRAALVYSDDKLE
 RNCYFTLEGVHEVFQEGLHTSIYSFDETKDLLEDIVRNIQASERVVIMCASSDTRSIIMLVAHRHGMT
 SGDYAFFNIELFNSSSYGDGSKRGDKHDFEAKQAYSSLQTVTLRLTKPEFEKFSMEVKSSVEKQGLNM
 EDYVNMVVEGFHDAILLVYLALHEVLRAGYSKKDGGKIIQQTWNRTFEGIAGQVSIIDANGDRYGDVSVIA
 MTDVEAGTQEVIGDYFGKEGRFEMRPNVKYPWGPKLRLIDENRIVEHTNSPCKSSGGLEESAVTGIVVG
 ALLGAGLLMAFYFFRKKYRITIERRTQQEESNLGKHRELREDSIRSHFSVA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001204375

ORF Size: 1623 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_001204375.2](#)

RefSeq Size: 7450 bp

RefSeq ORF: 1626 bp

Locus ID: 4883

UniProt ID: [P17342](#)

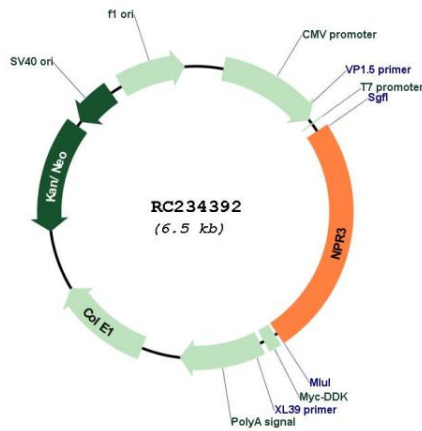
Cytogenetics: 5p13.3

Protein Families: Druggable Genome, Transmembrane

MW: 60.3 kDa

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 RC234392