

## Product datasheet for **RN207639**

### **Npr2 (NM\_053838) Rat Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Npr2 (NM\_053838) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Npr2  
**Synonyms:** GC-B; NPR-B  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN207639 representing NM\_053838  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCACTGCCATCCCTGCTACTGGTGGTGGCAGCCCTGGCAGGTGGGGTGGTCTCCGGGGGCACGGA  
ACCTGACGCTGGCGGTGGTGTGCCAGAACACAACCTGAGCTATGCCTGGGCCTGGCCACGGGTGGGTCC  
TGCTGTGGCACTGGCTGTGGAGGCGCTGGGCCGGGCACTGCCCGTGGACCTGCGGTTTGTACGCTCCGAA  
CTAGACGGCGCCTGCTCTGAGTACCTGGCACCCTGCGCGCTGTGGATCTCAAGCTGTACCATGACCCCG  
ACCTTCTGTTGGGCCCTGGTTGTGTGTACCTGCTGCCTCTGTGGCTCGCTTTGCCTCGCACTGGCACCT  
TCCCTCTGACTGCGGGTGCAGTGGCCTCTGGCTTTGCAGCTAAGAATGAGCATTATCGTACCCTGGTT  
CGCACTGGCCCTCTGCGCCCAAGCTGGGTGAGTTCGTAGTGACATTACACGGGCACTTCAATTGGACTG  
CTCGGGCTGCTTTGCTGTATCTGGATGCTCGCACAGATGACCGGCCCACTACTTACCATCGAGGGGGT  
GTTTGAGGCCCTGCAGGGCAGCAACCTCAGTGTGCAACACCAGGTGTATACCCGAGAGCCAGGTGGCCCT  
GAGCAAGCCACCACTTTCATCAGAGCCAACGGGCGCATTGTGTATCTGCGGCCCGCTGGAGATGCTTC  
ATGAGATCCTGCTTCAGGCCAGAGGGGAGAACCTGACCAATGGGACTATGTCTTTTACCTTGTATG  
CTTTGGGAGAGTCTACGAGCAGGCCCCACACGTGCGACAGCGCCGCCATGGCAGGACAATCGAACCAG  
GAACAAGCTCAGGCCCTCAGAGAGGCCCTTTCAGACTGTCCTGGTATCACGTACCGAGAGCCCCGAATC  
CCGAGTATCAGGAGTTCAGAACCCTGCTGATCAGAGCCGGGAAGACTTCGGCGTGGAGCTGGCCCC  
ATCCCTGATGAACCTCATTGCGGGCTGCTTCTATGATGGAATCCTGCTCTATGCCAAGTCTGAATGAG  
ACAATACAGGAAGGGGGCACCCGGGAAGATGGACTTCGAATTGTGGAGAAGATGCAGGGACGAAGATACC  
ATGGTGAACCTGGACTGGTTGTTATGGACAAGAACAATGACAGAGAGACTGATTCGTCCTGTGGGCCAT  
GGGAGACTTGAGTCTGGCGACTTTCAGCTGCAGCCCACTACTCAGGAGCTGAGAAGCAGATTTGGTGG  
ACAGGCCGGCCAATCCCTGGTGAAGGGGGCCCCACCTTTGGACAACCCCCCTGTGCCTTTGACTTGG  
ACGACCATCCTGTGATAAACTCCACTTTCACCTCTGGCAATTGTGGCCTGGGACGGGAATCACTTT  
CATCATGTTTGGTGTTCAGCTTCCCTAATTTCCGAAAATGATGCTGGAGAAGGAGCTGGCTAGCATG  
CTGTGGCGCATTTCGTTGGGAAGAACTGCAGTTCGGCAACTCGGATCGATATCACAAAGGTGCAGGCACTC



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GCCTGACGCTGTCGCTGCGGGGATCCAGTTACGGCTCGCTCATGACAGCCCATGGGAAATACCAGATCTT
TGCCAACACCGGTCACTTCAAGGAAATGTCGTTGCCATCAAACATGTGAATAAGAAGCGCATTGAGCTG
ACCCGGCAAGTTCTGTTGAACTCAAACACATGAGAGATGTTCAAGTTCAACCATCTTACTCGATTTCG
GAGCTTGCATAGACCCTCCCAACATCTGCATCGTCACCGAGTATTGTCTCGGGGAGCTTACAAGATAT
TCTAGAAAATGACAGCATCAATTTGACTGGATGTTTCGCTACTCGCTCATTAAATGACCTTGTGAAGGT
ATGGCCTTCTCCACAACAGCATTATTTTCATCTCATGGAAGCCTCAAGTCCTCTAACTGCGTGGTGGATA
GTCGATTTGTGCTCAAATAACGGATTACGGGCTGGCTAGCTCCGATCAACTGCTGAACCAGATGACAG
TCATGCCCTCTATGCCAAGAAGCTGTGGACTGCTCCAGAACTTCTTAGTGGGAACCCCTGCCAACCAG
GGCATGCAGAAGGCGGATGTCTATAGCTTTGCCATCATTCTGCAGGAAATAGCGCTCCGAGTGGTCCTT
TCTACTTGAAGGCTGGACCTCAGTCCCAAAGAGATTGTCCAGAAGGTGCGAAATGGTCAGAGGCCGTA
TTTCCGGCAAGCATTGACCGGACACAACCTGAACGAAGAGTTAGTTTTGCTGATGGAGAGGTGCTGGCC
CAGGACCAACAGAACGTCAGACTTTGGGCAATCAAGGGCTTCATTGCGCGTTTAAACAAGGAGGGTG
GTACCAGCATATTGGACAACCTTTGCTTCGCATGGAACAGTATGCCAATAACCTGGAAAACTGGTGA
GGAGCGCACACAGGCTACCTAGAGGAGAAGCGCAAGGCTGAGGCTCTGCTGTACCAAATCTACCCAC
TCTGTGGCAGAGCAGTTAAAACGGGAGAGACGGTTTCAAGGCGGAGCCTTTGACAGTGTCACTATCTACT
TCAGTGACATCGTGGGCTTACAGCGCTGTGAGTGCAGAGCAGCCCATGCAGGTGGTGACACTTCTAA
TGACCTTTATACCTGCTTTGATGCCATAATCGACAACCTTTGATGTCTACAAGGTGAAACCATTGGGGAT
GCCTACATGGTGGTATCTGGCCTTCCGGGCCGAAATGGTCAGCGCCATGCACCAGAAATTGCTCGAATGG
CTCTAGCATTACTAGATGCAGTTTCTTCCCTCCGATTCCGCAATCGACCCACGACCAGCTAAGGTTACG
CATAGGCGTCCATACTGGGCCAGTCTGTGCTGGGGTTGTTGGCCTGAAGATGCCCGGTACTGTCTTTTT
GGAGACACAGTAAACTGCTTCTCGAATGGAGTCTAATGGTCAAGCTCTAAAGATCCATGTCTCCTCGA
CCACCAAGGATGCCCTGGATGAGCTAGGATGCTTCCAGCTAGAACTCCGTGGGGATGTGGAGATGAAGGG
AAAAGGAAAAATGCGAACTTATTGGCTCTTAGGAGAGCGAAAAGGACCTCCTGGACTCTGTAA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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**Restriction Sites:**

SgfI-MluI

**ACCN:**

NM\_053838

**Insert Size:**

3144 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](mailto: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](#)

**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\\_053838.1](#), [NP\\_446290.1](#)

**RefSeq Size:** 3469 bp

**RefSeq ORF:** 3144 bp

**Locus ID:** 116564

**UniProt ID:** [P16067](#)

**Cytogenetics:** 5q22

**Gene Summary:** receptor for atrial natriuretic peptide, brain natriuretic peptide and atriopeptin; has guanylate cyclase activity [RGD, Feb 2006]