

## Product datasheet for **MC223390**

### Npr1 (NM\_008727) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Npr1 (NM_008727) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Npr1
Synonyms:	AI893888; GC-A; NPR-A; NPRA; Pndr
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for BC110659 edited  
 ATGCCGGGTTCCCGACGCGTCCGTCCGCGCCTAAGGGCGCTGCTGCTGCTACCGCCGCTG  
 CTGCTGCTCCGAAGCGGCCACGCGAGCGACCTGACCGTGGCCGTGGTCTGCCGCTGACC  
 AACACCTCGTACCGTGGTCTTGGGCGCGTGTAGGGCCGCGCGTGAAGTGGCTCTCGGG  
 AGGGTGAAGGCTCGGCCGACTTCTGCGGGTGGACGGTCCGTATGGTCTGGGCAGC  
 AGCGAGAACGCGGGCGTCTGCTCCGACACCGCCGACCGCTGGCCGCGGTGGATCTC  
 AAGTGGGAGCACAGCCCCGCGGTGTTCTGGGCCCGGCTGCGTATACTCTGCTGCCCCG  
 GTGGGACGCTTACCGCGCACTGGCGGGTGGCGTCTGACGGCTGGCGCCCCGCTCTG  
 GGCATCGGGTGAAGGATGAGTACGCGTTAACCACCGCACAGGCCAGCCATGTCAAG  
 CTGGGCGACTTTCGTGACGGCGTGCATCGACGGCTGGGCTGGGAGCACCAGGCGTGGT  
 CTCTATGCAGATCGGCTGGGCGACGACCGCCGTGCTTCTCATAGTGGAGGGGTGTAC  
 ATGCGGGTGCCTGAGCGACTCAACATCACAGTAAATCACCAGGAGTTCGTGAGGGCGAC  
 CCGGACCACTACCAAGCTACTGCGGACCGTGCAGCGCAAGGGCAGAGTTATCTACATC  
 TGCAGTTCTCCGGATGCCTTCAGGAATCTGATGCTTTTGGCCCTGGATGCTGGCCTGACT  
 GGGGAGGACTATGTTTTCTCCACCTGGATGTGTTTGGGCAAAGCCTTCAGGGTGTCTAG  
 GGCCCTGTTCCAGGAAGCCCTGGGAAAGAGACGATGGGAGGATAGGAGAGCCCCCAG  
 GCCTTTCAGGCTGCCAAAATTACTTACAAAGAACCCGATAATCCTGAGTACTTGGAA  
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 CTGAAAAATATCATCCCAGCATCCTTCCATGACGGGCTCTCTATGTCCAGGCAGTG  
 ACAGAGACTCTGGCACAGGGGGCACTGTCACTGATGGAGAGAACATCACTCAGCGGATG  
 TGAACCGAAGCTTCCAAGGTGTGACAGGATACCTGAAAATTGATAGAAATGGAGATCGG  
 GACACTGATTTCTCCCTCTGGGATATGGACCCGAGACAGGTGCCTTCAGGGTTGTCTG  
 AACTTTAATGGTACTTCCCAGGAGCTGATGGCTGTGTCAGAACACAGATTATACTGGCCT  
 CTGGGATACCCACCTCCTGACATCCCTAAATGTGGCTTTGACAATGAGGACCCAGCCTGC  
 AACCAAGACCACTTTCCACACTGGAGTTCTGGCTTTGGTGGGAGCCTCTCTCTGGTT  
 AGCTTTCTGATCGTGTCTTTCTCATATACAGGAAGATGCAGCTGAAAAGGAGCTGGTC  
 TCAGAGTTGTGGCGGGTGGCTGGGAGGACTTGCAGCCAGCAGCCTGGAGAGGCACCTT



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CGGAGCGCTGGCAGTCGGCTGACCCTGAGTGGGCGAGGCTCCAATTATGGCTCCCTGCTA
ACCACGGAGGGCCAGTTCCAAGTCTTTGCCAAGACAGCATACTATAAGGGCAACCTCGT
GCTGTGAAACGTGTGAACCGGAAACGCATTGAGTTGACACGAAAAGTCCTGTTTGAACCT
AAACATATGCGGGATGTGCAGAAATGAGCACTTGACCAGATTTGTGGGAGCTTGTACCGAC
CCTCCCAACATCTGTATCCTCACAGAGTACTGTCCCGTGGGAGCCTACAGGACATTCTA
GAGAATGAGAGTATTACCCTGGACTGGATGTTTCGGTACTCACTACCAATGACATTGTC
AAGGGATGCTCTTTCTACACAACGGGGCATTGGTCCCATGGGAACCTCAAGTCATCC
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GAGCTCCTGCGAATGGCTTCCCCACCTGCCCGTGGCTCCCAAGCTGGGGATGTCTACAGT
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AACAACTGGAGGAACTGGTAGAGGAGAGAACACAGGCTTATCTGGAGGAGAAGCGCAAA
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GATGCTTACATGGTGGTATCAGGGCTCCAGTGAGGAATGGACAGCTCCATGCCCGAGAG
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CCCCAGGAACAGCTGCGCTTGGCATTGGAATTCACACAGTCCCGTGTGTGCTGGTGTG
GTAGGGCTAAAGATGCCCGGATACTGCCTCTTTGGAGACACAGTCAACACAGCTTCAAGA
ATGGAGTCTAATGGGGAAGCCCTCAGGATCCACTTGTCTTCGGAGACCAAGGCTGTGCTG
GAAGAGTTCGATGGTTTTGAGCTGGAGCTCCGAGGTGACGTGGAATGAAGGGCAAAGGC
AAGGTTCGAACCTATTGGCTCCTCGGGGAGCGGGGATGCAGCACTCGAGGCTGA
    
```

**Restriction Sites:**

Sgfl-NotI

**ACCN:**

NM\_008727

**Insert Size:**

3174 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:** [BC110659](#), [AAI10660](#)

**RefSeq Size:** 3976 bp

**RefSeq ORF:** 3174 bp

**Locus ID:** 18160

**UniProt ID:** [P18293](#)

**Cytogenetics:** 3 39.23 cM

**Gene Summary:** Receptor for the atrial natriuretic peptide NPPA/ANP and the brain natriuretic peptide NPPB/BNP which are potent vasoactive hormones playing a key role in cardiovascular homeostasis. Has guanylate cyclase activity upon binding of the ligand.[UniProtKB/Swiss-Prot Function]