

Product datasheet for **MR208587**

Npr3 (NM_001039181) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Npr3 (NM_001039181) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Npr3 |
| Synonyms: | ANP-C; ANPR-C; EF-2; Igj; NPR-C; stri |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>MR208587 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGGTCTTGTGCTGTTCACTTTCTCGGCGTGCCTGCTGCTGGCCCGGTGCTGCTGGCTGGCGGC
 CGAGCAGCGCGCGCGGGACACCCGGCCAGGCAGCAGGCCCGGGCGAGAGAGGCCCTGGCGGCTCAAAA
 GATCGAGGTGCTTGTCTATTGCCCGGGACGATTCTGACTTGTCTCGCTGGCCCGGTGAGGCCGGCC
 ATCGAGTACGCGCTGCGTAGCGTGGAGGCAATGGCACCGGGAGGAAGCTGCTGCCCGCGGCACTCGCT
 TCCAGGTGGCCTACGAAGACTCGGACTGCGGCAACCGCGCGCTTTCAGTCTTGTGGACCGCTGGCGGC
 GGCGCGCGGCCAAGCCGGATCTCATCTGGGCCCCTGTGCGAGTACGCGCGCGCCGGTGGCTCGG
 CTGGCGTCTCACTGGGACCTGCCGATGCTGTCCGAGGAGCGCTGGCCCGCGTTCCAGACAAGGACA
 CGGAATACTCGACCTCACGCGCGTGGCGCCTGCCTACGCCAAGATGGGAGAGATGATGCTCGCTGTT
 TCGCCACCACCACTGGAGCCGTGCAGCCCTGGTCTACAGCGACGACAACTCGAGAGGAAGTGTATTTC
 ACCTCGAGGGGGTCCACGAGGTTTTTCAGGAGGAGGGGTTGCACACGTCTGCCTACAATTCGACGAAA
 CCAAAGACTTGGACCTGGACGACATAGTGCCTACATCCAAGGCAGCGAGCGAGTGGTGTATGTGTGC
 CAGTGGTGACACCATTCGGAGAATCATGTTGGCGGTGCACAGACCGGCATGACCACTGGAGACTACGCT
 TTCTTCAACATTTAACTCTTCAACAGTCTTCTCCTACGGAGATGGCTCGTGGAGGAGAGGAGACAAACAG
 ACTCTGAAGCTAAACAAGCATACTCGTCCCTCAAACAGTCACTACTGAGGACCGTGAACCTGAGTT
 TGAGAAGTTTTCCATGGAGGTGAAAAGTTCTGTTGAGAAAAGGGCTCAATGAGGAGGATTACGTGAAC
 ATGTTTGTGAAGGTTCCATGACGCCATCCTCCTCTACGTTCTGGCTTACACGAAGTGTCTCAGAGCTG
 GCTACGCAAGAAGGATGGGGGAAAATCATCCAGCAGACTTGAACAGGACATTTGAAGGTATCGCTGG
 GCAGGTGCCATAGATGCCAACGGGACCGGTATGGGGACTTCTCTGTGGTTGCCATGACTGACACTGAA
 GCAGGCACCCAAGAGGTATTGGTGATTACTTTGGAAAAGAGCCGGTCCAAATGCGATCGAATGTCA
 AATATCCTTGGGGCCCTTGAACCTGAGACTAGATGAGACCAGAATCGTGGAGCATAACACAGCTCTCC
 TTGCAATCATGTGGCCTAGAAGAATCTGCAGTGACAGGAATCGTTGTGGGGCCCTACTAGGTGCTGGC
 TTGCTAATGGCCTTCTACTTTTTAGGAAGAAATACAGAATAACCATTGAGAGGCGAAATCAGCAAGAGG
 AAAGCAACATCGGAAGCATCGAGAGCTGCGGGAAGATTCCATCAGATCACATTTTTCGGTGGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208587 protein sequence
 Red=Cloning site Green=Tags(s)

MRSLLLFTFSACVLLARVLLAGGASSGAGDTRPGSRRRAREALAAQKIEVLVLLPRDDSYLFLSARVRPA
 IEYALRSVEGNGTGRKLLPPGTRFQVAYEDSDCGNRALFSLVDRVAAARGAKPDLILGPVCEYAAAPVAR
 LASHWDLPMLSAGALAAAGFQHKDTEYSHLTRVAPAYAKMGEMMLALFRHHHSRAALVYSDDKLERNCYF
 TLEGVHEVFQEEGLHTSAYNFDETKDLDDIVRYIQGSERVVIMCASGDTIRRIMLAVHRHGMTSGDYA
 FFNIELFNSSSYGDGSWRRGDKHDEAKQAYSSLQTVTLRLTVKPEFEKFSMEVKSSVEKQGLNEEDYVN
 MFVEGFHDAILLVYALHEVLRAGYSKKDGGKIIQQTWNRTFEGIAGQVSIIDANGDRYGDVSVVAMTDE
 AGTQEVIGDYFGKEGRFQMRSNVKYPWGPLKLRLDETRIVEHTNSPCKSCGLEESAVTGIVVGALLGAG
 LLMAFYFFRKKYRITIERRNQEEENIGKHRELREDSIRSHFSVA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001039181

ORF Size: 1605 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_001039181.1](#), [NP_001034270.1](#)

RefSeq Size: 6924 bp

RefSeq ORF: 1608 bp

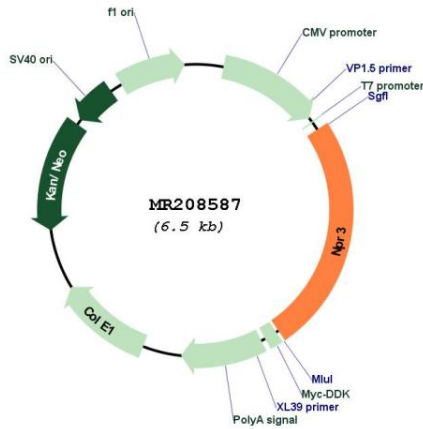
Locus ID: 18162

Cytogenetics: 15 5.83 cM

MW: 59.8 kDa

Gene Summary: Receptor for the natriuretic peptide hormones, binding with similar affinities atrial natriuretic peptide NPPA/ANP, brain natriuretic peptide NPPB/BNP, and C-type natriuretic peptide NPPC/CNP (PubMed:10377427, PubMed:17951249). May function as a clearance receptor for NPPA, NPPB and NPPC, regulating their local concentrations and effects (PubMed:10377427, PubMed:17951249). May regulate diuresis, blood pressure and skeletal development (PubMed:10377427). Does not have guanylate cyclase activity (PubMed:10377427). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208587