

Product datasheet for **MG208587**

Npr3 (NM_008728) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Npr3 (NM_008728) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Npr3
Synonyms:	ANP-C; ANPR-C; EF-2; Igj; NPR-C; stri
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG208587 representing NM_008728
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGGTCCTTGCTGCTGTTCACTTTCTCGGCGTGCCTGCTGCTGGCCCGGGTGTCTGGCTGGCGGCC
 CGAGCAGCGGCGCGGGGACACCCGGCCAGGCAGCAGGCCCGGGCGAGAGAGGCCCTGGCGGCTCAAAA
 GATCGAGGTGCTTGTCTATTGCCCGGGACGATTCTGACTTGTCTCGCTGGCCCGGGTGGAGCCGGCC
 ATCGAGTACGCGCTGCGTAGCGTGGAGGCAATGGCACCGGGAGGAAGCTGCTGCCGCCAGGCACTCGCT
 TCCAGGTGGCCTACGAAGACTCGGACTGCGGCAACCGCGCGCTTTCAGTCTTGTGGACCGCTGGCGGC
 GGCGCGCGGCCAAGCCGGATCTCATCTGGGCCCCTGTGCGAGTACGCGGCGCGCCGGTGGCTCGG
 CTGGCGTCTCACTGGGACCTGCCGATGCTGTCCGAGGAGCGCTGGCCCGCGTTTCCAGACAAGGACA
 CGGAATACTCGCACCTCACGCGCGTGGCGCCTGCCTACGCCAAGATGGGAGAGATGATGCTCGCTGTT
 TCGCCACCACCACTGGAGCCGTGCAGCCCTGGTCTACAGCGACGACAACTCGAGAGGAAGTGTATTTC
 ACCTCGAGGGGGTCCACGAGGTTTTTCAGGAGGAGGGGTTGCACACGTCTGCCTACAATTCGACGAGA
 CCAAAGACTTGGACCTGGACGACATAGTGCCTACATCCAAGGCAGCGAGCGAGTGGTGTATGTGTGC
 CAGTGGTGACACCATTCCGAGAATCATGTTGGCGGTGCACAGACCGGCATGACCAGTGGAGACTACGCT
 TTCTTCAACATTGAACCTTTCAACAGTCTTCTCCTACGGAGATGGCTCGTGGAGGAGAGGAGACAAACAG
 ACTCTGAAGCTAAACAAGCATACTCGTCCCTCCAAACAGTCACCCTACTGAGGACCGTGAACCTGAGTT
 TGAGAAGTTTTCCATGGAGGTGAAAAGTTCTGTTGAGAAAACAAGGGCTCAATGAGGAGGATTACGTGAAC
 ATGTTTGTGAAGGTTCCATGACGCCATCCTCCTACGTTCTGGCTTACATGAAGTACTCAGAGCTG
 GCTACAGCAAGAAGGATGGGGGAAAATCATCCAGCAGACTTGAACAGGACATTTGAAGGTATCGCCGG
 GCAGGTGCCATAGATGCCAACGGGGACCGGATGGGGACTTCTCTGTGGTTGCCATGACTGACACTGAA
 GCAGGCACCCAAGAGGTATTGGTGATTACTTTGGAAAAGAAGGCCGGTCCAAATGCGATCGAATGTCA
 AATATCCTTGGGGCCCTTTGAACTGAGACTAGATGAGACCAGAATCGTGGAGCATAACACAGCTCTCC
 TTGCAATCATCAGGTGGCCTAGAAGAATCTGCAGTGACAGGAATCGTTGTGGGGCCCTACTAGGTGCT
 GGCTTGCTAATGGCCTTCTACTTTTTAGGAAGAAATACAGAATAACCATTGAGAGGCGAAATCAGCAAG
 AGGAAAGCAACATCGGGAAGCATCGAGAGCTGCGAGAAGATTCCATCAGATCACATTTTTCGGTGGCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208587 representing NM_008728
 Red=Cloning site Green=Tags(s)

MRSLLFTFSACVLLARVLLAGGASSGAGDTRPGSRRRAREALAAQKIEVLVLLPRDDSYLFLSARVRPA
 IEYALRSVEGNGTGRKLLPPGTRFQVAYEDSDCGNRALFSLVDRVAAAARGAKPDLILGPVCEYAAAPVAR
 LASHWDLPMLSAGALAAGFQHKDTEYSHLTRVAPAYAKMGEMMLALFRHHHWSRAALVYSDDKLERNCYF
 TLEGVHEVFQEEGLHTSAYNFDETKDLDDIVRYIQGSERVVIMCASGDTIRRIMLAVHRHGMTSGDYA
 FFNIELFNSSSYGDGSWRRGDKHDSEAKQAYSSLQTVTLRLTVKPEFEKFSMEVKSSVEKQGLNEEDYVN
 MFVEGFHDAILLYVLALHEVLRAGYSKKDGGKIIQQTWNRTFEGIAGQVSIIDANGDRYGDVSVVAMTDTE
 AGTQEVIGDYFGKEGRFQMRSNVKYPWGPLKRLDETRIVEHTNSSPCKSSGGLEESAVTGIVVGALLGA
 GLLMAFYFRKKYRITIERRNQEQEESNIGKHRELREDSIRSHFSVA

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_008728

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_008728.2](#), [NP_032754.2](#)

RefSeq Size: 6924 bp

RefSeq ORF: 1611 bp

Locus ID: 18162

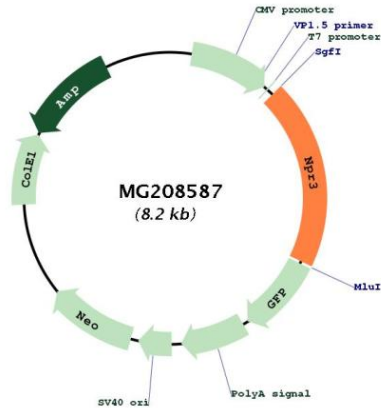
UniProt ID: [P70180](#)

Cytogenetics: 15 5.83 cM

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 MG208587