

Product datasheet for MR226811

Npr1 (NM_008727) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Npr1 (NM_008727) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Npr1
Synonyms:	A1893888; GC-A; NPR-A; NPRA; Pndr
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR226811 representing NM_008727 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGGTTCCCGACGCGTCCGTCGCGCCTAAGGGCGCTGCTGCTGCTACCGCCGCTGCTGCTGCTCC
GAAGCGGCCACGCGAGCGACCTGACCGTGGCCGTGGTGTGCCGCTGACCAACACCTCGTACCCGTGGTC
TTGGGCGCGTGTAGGGCCGGCGGTGGAAGTGGCTCTCGGGAGGGTGAAGGCTCGGCCGACTTGCTGCCG
GGTTGGACGG[AT]CCGATGGTGTGGCAGCAGCGAGAACCGCGGGCGTCTGCTCCGACACCGCCG
CACCGCTGGCCGGTGGATCTCAAGTGGGAGCACAGCCCGCGGTGTTCTGGGCCCGGCTGCGTATA
CTCTGCTGCCCGGTGGGACGCTTACCAGCGACTGGCGGGTGGCGCTGCTGACGGCTGGCGCCCGGCT
CTGGGCATCGGGGTGAAGGATGAGTACGCGTTAACCCACCGCACAGGACCCAGCCATGTCAAGCTGGGCG
ACTTCGTGACGGCGCTGCATCGACGGCTGGGCTGGGAGCACCAGGCGCTGGTGTCTATGCAGATCGGCT
GGGCGACGACCGCCGTGCTTCTCATAGTGGAGGGGCTGTACATGCGGGTGCCTGAGCGACTCAACATC
ACAGTAAATCACCAGGAGTTCGTCGAGGGCGACCCGGACCACTACACCAAGCTACTGCGG[AT]CCGTGC
AGCGCAAGGGCAGAGTTATCTACATCTGCAGTTCTCCGGATGCCTTCAGGAATCTGATGCTTTTGGCCCT
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GCTCAGGGCCCTGTTCCAGGAAGCCCTGGGAAAGAGACGATGGGACGGATAGGAGAGCCCGCAGGCCCT
TTCAGGCTGCCAAAATTACTTACAAAAGAACCCGATAATCCTGAGTACTTGAATTCTCTGAAGCAGCT
AAAACCTTTGGCTGACAAGAAATCAACTTCACCATGGAGGATGGCTGAAAAATATCATCCCAGCATCC
TTCCATGACGGGCTCCTGCTCTATGTCCAGGCACTGACAGAGACTCTGGCACAGGGGGGCACTGTCACTG
ATGGAGAGAACATCACTCAGCGGATGTGGAACCGAAGCTTCCAAGGTGTGACAGGATACCTGAAAATTGA
TAGAAATGGAGATCGGGACACTGATTTCTCCCTCTGGGATATGGACCCGAGACAGGTGCCTTCAGGGT
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GATACCCACCTCCTGACATCCCTAAATGTGGCTTTGACAAATGAGGACCCAGCCTGCAACCAAGACCACTT
TCCACACTGGAGTTCTGGCTTGGTGGGCGAGCCTCTCTGTTAGCTTTCTGATCGTGTCTTTCTCT



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ATATACAGGAAGATGCAGCTGGAAAAGGAGCTGGTCTCAGAGTTGTGGCGGTGCGCTGGGAGGACTTGC
 AGCCCAGCAGCCTGGAGAGGCACCTTCGGAGCGCTGGCAGTCGGCTGACCCTGAGTGGGCGAGGCTCCAA
 TTATGGCTCCCTGCTAACACGGAGGGCCAGTTCCAAGTCTTTGCCAAGACAGCATACTATAAGGGCAAC
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 GTTCCCATGGGAACCTCAAGTCATCCAAGTGCCTGGTGGTAGATGGAGTTTTGTGTTAAAGTACAGACTA
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 CGCAAAGCTGAGGCCCTGCTTACCAGATTCTGCCTCACTCTGTGGCTGAGCAGCTGAAGAGAGGGCGAGA
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 AGCAGAGAGCACACCCATGCAGGTGGTCACCCTGCTCAATGATCTGTACACCTGTTTTGATGCTGTCATA
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 GGTGTGGTAGGGCTAAAGATGCCCGGACTGCTCTTGGAGACACAGTCAACACAGTCAAGAATGG
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 GGGGAGCGGGGATGCAGCACTCGAGGCAGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCT

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226811 representing NM_008727
 Red=Cloning site Green=Tags(s)

MPGSRVRPRLRALLLPLLLLLRSGHASDLTVAVVPLPLTNTSYPWSWARVGPAVELALGRVKARPDLLP
 GWTXXRMVLGSSENAAGVCSDTAAPLAAYDLKWEHSPAVFLGPGCVYSAAPVGRFTAHRVPLLTAGAPA
 LGIGVKDEYALTRRTGPSHVKLGDVFTALHRRLGWEHQALVLYADRLGDDRPCFFIVEGLYMRVRERLNI
 TVNHQEFVEGDPDHYTKLLRXXVQRKGRVIYICSSPDAFRNMLLALDAGLTGEDYVFFHLDVFGQSLQG
 AQGPVPRKPWERDDGQDRRARQAFQAAKIITYKEPDNPEYLEFLKQLKLLADKKFNFTMEDGLKNIIPAS
 FHDGLLLIVQAVTETLAQGGTVDGENITQRMWNRSFQGVTYLKIDRNGDRDITDFSLWMDMPETGAFRV
 VLNFNQTSQELMAVSEHRLYWPLGYPPDIPKCGFDNEDPACNQDHFSTLEVLALVGSLSLVSFLIVSFF
 IYRKMQLKELVSELWRVRWEDLQPSLERHLRSAGSRLTSGRGSNYGSLLTTEGQFQVFAKTAYYKGN
 LVAVKRVNRKRIELTRKVL FELKHMRDVQNEHLTRFVGACTDPPNICILTEYCPRGSLQDILENESITLD
 WMFRYSLTNDIVKGMFLHNGAIGSHGNLKSNSCVVDGRFVLIKIDYGLSEFRDPEPEQGHTLFAKKLWT
 APELLRMASPPARGSQAGDVYSFGIILQEIALRSGVFYVEGLDLSPKEI IERVTRGEQPPFRPSMDLQSH
 LEELGQLMQRCAEDPQERPPFQQIRLALRKFKNKENSNILDNLLSRMEQYANNLEELVEERTQAYLEEK
 RKAEALLYQILPHSVAEQLKRGTEVQAEAFDSVTIYFSDIVGFTALSAESTPMQVVTLNLDLYTCFDAVI
 DNFDVYKIVETIGDAYMVVSGLPVRNGQLHAREVARMALALLDAVRSFRIHRHPQEQLRLRIGIHTGPVCA
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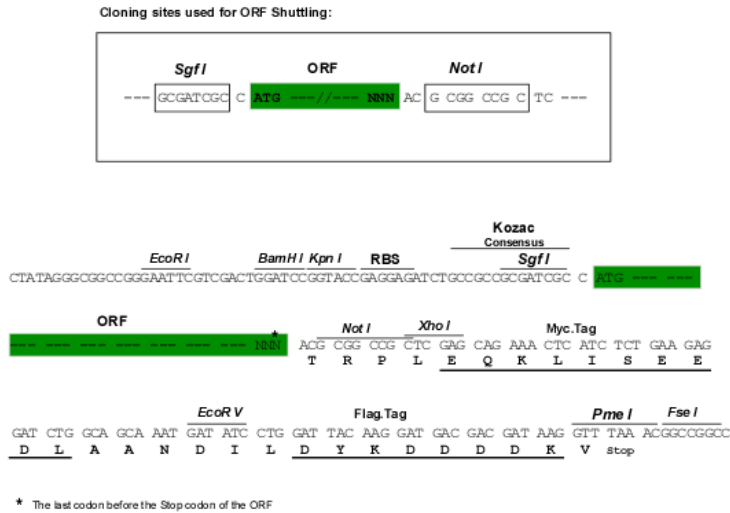
SGPTRRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja2184_a10.zip

Restriction Sites: SgfI-NotI

Cloning Scheme:



ACCN: NM_008727

ORF Size: 3171 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 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](#)

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_008727.5, NP_032753.5](#)

RefSeq Size: 4065 bp

RefSeq ORF: 3174 bp

Locus ID: 18160

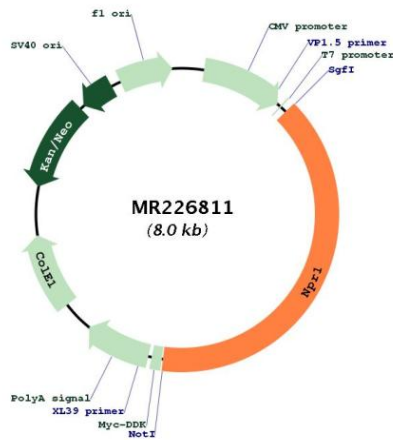
UniProt ID: [P18293](#)

Cytogenetics: 3 39.23 cM

MW: 119.1 kDa

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]

Product images:



Circular map for MR226811