

Product datasheet for MR219420

Npbwr1 (NM_010342) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Npbwr1 (NM_010342) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Npbwr1
Synonyms:	Gpr7; Nbpwr1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR219420 representing NM_010342 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCATAACTTAACGCTTTTCGAGTCTGGAGGGGACAACGTGTCTTGGCGGGCTCATCTTTGGGCTGTC
CCAACGGGTCCAGCCTGGCTCCTCTGCCGCTGCCGAGCCACTGGCGGTAGCAGTGCCTGTCGTCTACGG
GGTAATTTGCGCCGTGGGACTGGCTGGCAACTCTGCGGTGCTGTACGTAAGTGTGCGCACGCCGCGCATG
AAGACTGTACCAACGTGTTTCATCCTCAACCTGGCTATCGCCGATGAGCTCTTACCCTCGTGTGCCCCA
TCAACATCGCGGACTTCTGCTGAGGCGCTGGCCCTTCGGGGAGGTGATGTGCAAGCTCATTGTAGCCGT
CGACCAGTACAACACTTTCTCTAGCCTCTACTTCCCTCGCCGTCATGAGCGCCGACCGATACCTGGTGGTT
CTGGCCACAGCAGAGTCGCGCCGGGTGTCCGGGCGCACTACGGTGCAGCGCGTGTGTCAGTCTGGCGG
TGTGGGCGCTGGTGACGCTGGTGTGCTGCCCTTTGCGGTATTGCTCGGCTGGACGAGGAGCAGGGTGC
GCGCCAGTGCCTGCTGGTCTTCCCGCAGCCGAGGCCCTTCTGGTGGCGTGCCAGCCGTCTCTACACACTA
GTATTGGGCTTTGCCATCCCGGTGACCACCATCTGTGCTCTATACCACTCTGCTCTGCCGACTGCGTG
CTATCCAGCTAGATAGCCACGCCAAGGCCCTGGATCGTGCCAAGAAGCGCGTGACCTTGTGGTGGCGGC
GATTCTGGCTGTGTGCCTCCTCTGCTGGACGCCTTATCACCTGAGTACCATAGTGGCCCTCACACCCGAC
CTCCCGCAAACGCCGCTGGTTCATCGGCATCTTACTTTCATCACAGCCTGAGCTATGCTAACAGCTGCC
TCAACCCTTCTCTATGCCTTCTGGACGACAGCTTCCGAGAAGCCTCCGGAATTGGTGTATGCCG
TTCAGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR219420 representing NM_010342
Red=Cloning site Green=Tags(s)

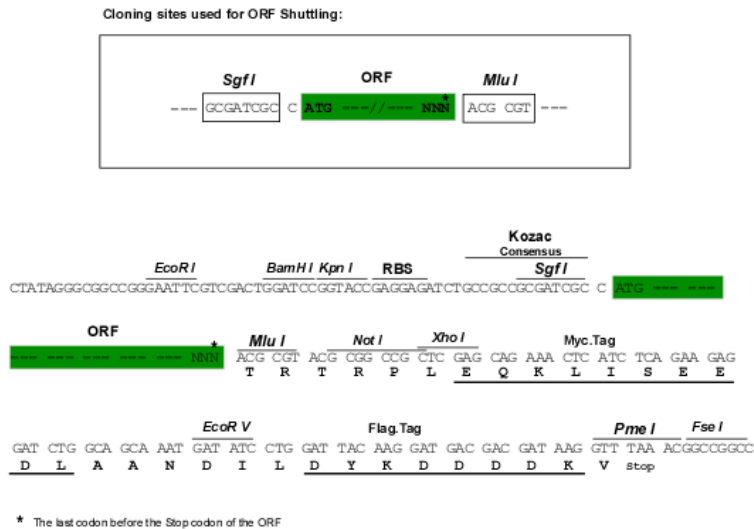
MHNLTLFESGGDNVSCGGSSLGCPNGSSLAPLPLPQPLAVAVPVVYGVICAVGLAGNSAVLYVLLRTPRM
 KTVTNVFI LNLAIADELFTLVLPINIADFLLRRWPFGEVMCKLIVAVDQYNTFSSLYFLAVMSADRYLVV
 LATAESRRVSGRTYGAARAVSLAVWALVTLVVL PFAV FARLDEEQRRQCVLVFPQPEAFWWRASRLYTL
 VLGFAIPVTTICALYTTLLCRLRAIQLD SHAKALDRAKKRVTLVAAILAVCLLCWTPYHLSTIVALTTD
 LPQTPLVIGISYFITSLSYANSCLNPFLYAFLD DSFRRSLRQLVSCRSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9020_f07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010342

ORF Size: 987 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_010342.1](#), [NP_034472.1](#)

RefSeq Size: 3692 bp

RefSeq ORF: 990 bp

Locus ID: 226304

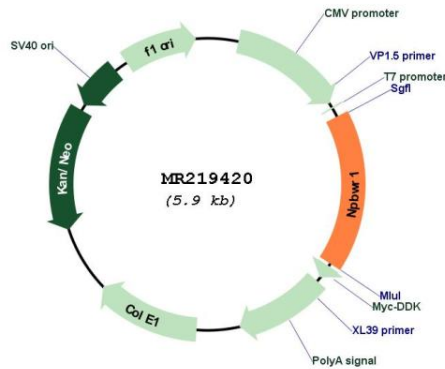
UniProt ID: [P49681](#)

Cytogenetics: 1 A1

MW: 36.5 kDa

Gene Summary: Interacts specifically with a number of opioid ligands. Receptor for neuropeptides B and W, which may be involved in neuroendocrine system regulation, food intake and the organization of other signals (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219420