

## Product datasheet for **RR201278**

### **Npbwr1 (NM\_001014784) Rat Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Npbwr1 (NM\_001014784) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Npbwr1  
**Synonyms:** Gpr7; Nbpwr1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR201278 representing NM\_001014784  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCACAACCTTGTGCTCTTCGAGCCTGGCAGGGGCAATGTGTCTTGGCGGCCCATTTTTGGGCTGTC  
CTAACGAGTCGAACCCAGCGCCTCTGCCACTGCCGAGCCTCTGGCGGTAGCAGTGCCTGTGGTCTACGG  
GGTGATCTGCGCGGTGGGACTGGCGGGCAACTCCGCGGTGCTGTACGTACTGCTGCGCACGCCGCGCATG  
AAGACTGTTACCAACGTGTTCACTTCTCAACCTGGCTATCGCGGACGAGCTTTCACCTCGTGTGCCCA  
TCAACATCGCGGATTTCTGCTGAGGCGCTGGCCCTTCGGGGAAGTCATGTGCAAGCTCATCGTGGCTGT  
CGACCAGTACAACACTTTCTCTAGCCTCTACTTCTCGCCGTCATGAGCGCAGACCGCTACCTGGTTGTC  
CTGGCCACAGCCGAGTCGCGCCGGGTGTCCGGGCGCACTATGGTGCAGCGCGGGCTGTCAGTCTGGCGG  
TGTGGGCGCTGGTGACATTGGTCGTGCTGCCTTTTGGCGTATTCGCCCGGCTGGACGAAGAGCAGGGTGC  
GCGTCAGTGCCTGCTGGTCTTCCCGCAGCCTGAGGCCCTCTGGTGGCGCGCCAGCCGTCTGTACTACTTA  
GTGTTGGGCTTCGCCATCCCGGTGTCCACCATCTGCGCCCTCTATCACCTGTTGTGCCGACTGCGTG  
CTATCCAGCTAGACAGCCAGCCAAGGCCCTGGACCGTGAAGAAGCGCGTGACCTTGTGGTGGTGCC  
GATTCTGGCTGTGTGCCTCCTCTGCTGGACACCGTACCACCTGAGCACCATAGTGGCGCTCACCCAGAC  
CTCCCGAAACACCGTTGGTCATCGGCATCTTACTTCAACAGTCTGAGCTATGCCAACAGCTGCC  
TCAACCTTTCTCTATGCCTTCTGGACGACAGCTTCCGAGGAGCCTGCGGCAGCTGGTGTATGCC  
CACAGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR201278 representing NM\_001014784  
 Red=Cloning site Green=Tags(s)

MHNL SLFEPGRGNVSCGGPFLGCPNESNPAPLPLPQPLAVAVPVVYGVICAVGLAGNSAVLYVLLRTPRM  
 KTVTNVFI LNLAIADELFTLVLPINIADFLLRRWPFGEVMCKLI VAVDQYNTFSSLYFLAVMSADRYLVV  
 LATAESRRVSGRTYGAARAVSLAVWALVTLVVL PFAV FARLDEEQGRRQCVLVFPQPEAFWWRASRLYTL  
 VLGFAIPVSTICALYITLLCRLRAIQLD SHAKALDRAKKRVTLV VAILAVCLLCWTPYHLSTIVALTTD  
 LPQTPLVIGISYFITSLSYANSCLNPFYAFLLD DSFRRSLRQLVSCR TA

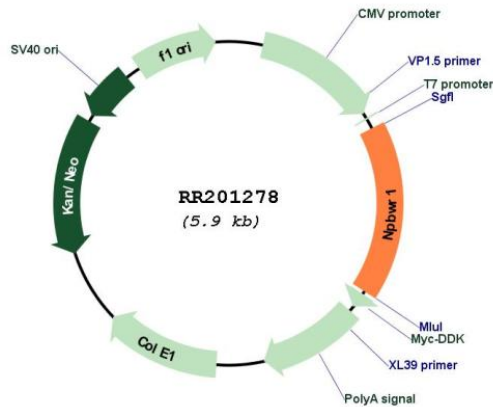
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001014784

**ORF Size:** 987 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001014784.1</a> , <a href="#">NP_001014784.1</a>
<b>RefSeq Size:</b>	990 bp
<b>RefSeq ORF:</b>	990 bp
<b>Locus ID:</b>	297795
<b>UniProt ID:</b>	<a href="#">Q56UD9</a>
<b>Cytogenetics:</b>	5q12
<b>MW:</b>	36.3 kDa
<b>Gene Summary:</b>	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]