

Product datasheet for **SC116844**

NPBWR2 (NM_005286) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: NPBWR2 (NM_005286) Human Untagged Clone
Tag: Tag Free
Symbol: NPBWR2
Synonyms: GPR8
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_005286, RT-PCR generated
CAACGGTCCCAGCTACAATGCAGGCCGCTGGGCACCCAGAGCCCCTTGACAGAGGGGCT
CCTTCTCCCTCCCACGATGGGTGCCAACGTCTCTCAGGACAATGGCACTGGCCACAATG
CCACCTTCTCCGAGCCACTGCCGTTCTCTATGTGCTCCTGCCCGCCGTGACTCCGGGA
TCTGTGCTGTGGGGCTGACTGGCAACACGGCCGTCATCCTTGAATCCTAAGGGCAGCCCA
AGATGAAGACGGTGACCAACGTGTTTCATCCTGAACCTGGCCGTCGCCGACGGGCTCTTCA
CGCTGGTACTGCCCGTCAACATCGCGGAGCACCTGCTGCAGTACTGGCCCTTCGGGGAGC
TGCTCTGCAAGCTGGTGTGGCCGTCGACCACTACAACATCTTCTCCAGCATCTACTTCC
TAGCCGTGATGAGCGTGGACCGATACCTGGTGGTGTGGCCACCGTGAGGTCCCAGCCACA
TGCCCTGGCGCACCTACCGGGGGCGAAGGTCGCCAGCCTGTGTGTCTGGCTGGGCGTCA
CGGTCTGGTTCTGCCCTTCTTCTTTTCGCTGGCGTCTACAGCAACGAGCTGCAGGTCC
CAAGCTGTGGGCTGAGCTTCCCCTGGCCCGAGCAGGTCTGGTTCAAGGCCAGCCGTGTCT
ACACGTTGGTCTCGGGCTTCGTGCTGCCCGTGTGACCATCTGTGTGCTCTACACAGACC
TCTTGGCAGGCTGCGGGCCGTGCGGCTCCGCTCTGGAGCCAAGGCTCTAGGCAAGGCCA
GGCGGAAGGTGACCGTCTGGTCTCGTGTGCTGGCCGTGTGCCCTCTGTGCTGGACGC
CCTTCCACCTGGCCTCTGTGTGGCCCTGACCACGGACCTGCCCCAGACCCCACTGGTCA
TCAGTATGTCTACGTATCACCAGCCTCAGCTACGCCAACTCGTGCCTGAACCCCTTCC
TCTACGCCTTTCTAGATGACAACCTCCGGAAGAACTCCGCAGCATATTGCGGTGCTGAA
GGG



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005286 unedited</p> <pre> NGGAAATTAGATTTGTAACGACTCATATAGGCGGCCGCGNAATCAGATCTGGTACCGAG CTCGGATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGGCTTCAACGGTCCCAGCTA CAATGCAGGCCGCTGGGCACCCAGAGCCCTTGACAGCAGGGGCTCCTTCTCCCTCCCA CGATGGGTGCCAACGTCTCTCAGGACAATGGCACTGGCCACAATGCCACCTTCTCCGAGC CACTGCCGTTCTCTATGTGCTCCTCGCCGCGTACTCCGGGATCTGTGCTGTGGGGC TGACTGGCAACACGGCCGTCATCTTGTAACTTAAGGGCGCCCAAGATGAAGACGGTGA CCAACGTGTTTCCTGAACCTGGCCGTCGCCGACGGGCTTTCACGCTGGTACTGCCCG TCAACATCGCGGAGCACCTGCTGCACTACTGGCCCTTCGGGGAGCTGCTCTGCAAGCTGG TGCTGGCCGTCGACCACTACAACATCTTCTCCAGCATCTACTTCTAGCCGTGATGAGCG TGGACCGATACCTGGTGGTGTGCTGGCCACCGTGAGGTCCCGCCACATGCCCTGGCGCACCT ACCGGGGGGCGAAGGTCGCCAGCCTGTGTGTCTGGCTGGGCGTACGGTCTGTTCTGTC CCTTCTTCTTTTCGCTGGCGTCTACAGCAACGAGCTGCAGGTCCCAAGCTGTGGGCTGA GCTTCCCGTGGCCGAGCAGGTCTGTTCAAGGCCAGCCGTGTCTACACGTTGGTCTGG GCTTCGTGCTGCCCGTGTGCACCATCTGTGTGCTTACACAGACCTCTGCGCAGGCTGC GGGCCGTGCGGCTCCGCTCTGGAGCCAAGCTCTTAGGCAGGCCAGACNNGAAGTGACCCG TCCTGTCTCGACTGCTGGCCGTG </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005286 unedited</p> <pre> CCATAAGGTCATTGGGCGATGGTCAACTTGCCAGGGCCAGGGAGTAGGCACTGGGGGNAG GGGCTCACAGGGCATGCCACTCCGGGTATCTGTTGCAGGAAAACAGCTATGACCCGCGCC GCCAGTGTGATGGATATCTGCAGAATTCGGCTTCCCTTACAGCACCGCATATGCTGCGGAA GTTCTTCCGGAAGTTGTATCTAGAAAAGCGTAGAGGAAGGGGTTTCAGGCACGAGTTGGC GTATCTGAGGCTGGTGTGACGTAAGACATACTGATGACCAAGTGGGGTCTGGGGCAGGTC CGTGGTACAGGGCCACGACAGAGGCCAGGTGGAAGGGCGTCCAGCAGAGGAGGCACACGGC CAGCACGACGAGGACCAGGACGGTACCTTCCGCTGGCCTTAGAGCCTTGGCTCC AGAGCGGAGCCGACGGCCCGCAGCCTGCGCAAGAGGTCTGTGTAGAGCACACAGATGGT GCACACGGGCAGCACGAAGCCCAGGACCAACGTGTAGACACGGCTGGCCTTGAACCAGAC CTGCTCGGGCCACGGGAAGCTCAGCCCACAGCTTGAGACCTGCAGCTCGTTGCTGTANAC GCCAGCATTTCGCCCCCGTAGGTGCGCCAGGGCATGGGGCGGACCCTCAGTGTGCCCA GCCACCCCAAGTTTCGGTTCACGCTCATCACGGCTAGGAAATAAATGCTGGAAAAAATGT TGGTATGGGCCAACGGCAAGCACCAACCTGAAAAAGCACCCCCCAAAGGCCATTCTT GAACCAAGTGTCCNCCATGTTGCCGGGCATTTCCCTTTAAAAACCCCTCGCCAACGGC CATTTTCAGGAGAAAACCGTTGGAAG </pre>
Restriction Sites:	Please inquire
ACCN:	NM_005286
Insert Size:	1100 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_005286.2](#), [NP_005277.2](#)

RefSeq Size: 1002 bp

RefSeq ORF: 1002 bp

Locus ID: 2832

UniProt ID: [P48146](#)

Cytogenetics: 20q13.33

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: The protein encoded by this gene is an integral membrane protein and G protein-coupled receptor. The encoded protein is similar in sequence to another G protein-coupled receptor (GPR7), and it is structurally similar to opioid and somatostatin receptors. This protein binds neuropeptides B and W. This gene is intronless and is expressed primarily in the frontal cortex of the brain. [provided by RefSeq, Jul 2008]