

## Product datasheet for **SC116841**

### GPR7 (NPBWR1) (NM\_005285) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GPR7 (NPBWR1) (NM_005285) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPR7
Synonyms:	GPR7
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_005285, RT-PCR generated  
 ATGGACAACGCCTCGTTCTCGGAGCCCTGGCCCGCCAACGCATCGGGCCCGGACCCGGCG  
 CTGAGCTGCTCCAACGCCTCGACTCTGGCGCCGCTGCCGCGCCGCTGGCGGTGGCTGTA  
 CCAGTTGTCTACGCGGTGATCTGCGCCGTGGGTCTGGCGGCAACTCCGCGGTGCTGTAC  
 GTGTTGCTGCGGGCGCCCGCATGAAGACCGTCACCAACCTGTTTCATCCTCAACCTGGCC  
 ATCGCCGACGAGCTCTTACGCTGGTGCTGCCATCAACATCGCCGACTTCTGTGCGG  
 CAGTGGCCCTTCGGGAGCTCATGTGCAAGCTCATCGTGGCTATCGACCAGTACAACACC  
 TTCTCCAGCCTCTACTTCTCACCGTCATGAGCGCCGACCGCTACCTGGTGGTGTGGCC  
 ACTGCGGAGTCGCGCCGGTGGCCGGCCGACCTACAGCGCCGCGCGCGGTGAGCCTG  
 GCCGTGTGGGGATCGTCACTCGTGTGCTGCCCTTCGAGTCTTCGCCCGGTAGAC  
 GACGAGCAGGGCCGGCCAGTGCCTAGTCTTCCGAGCCCGAGGCCTTCTGGTGG  
 CGCGCAGCCGCCTCTACAGCTCGTGTGGGCTTCGCCATCCCGTGTCCACCATCTGT  
 GTCCTCTATACCACCCTGCTGTGCCGGTGCATGCCATGCGGCTGGACAGCCACGCCAAG  
 GCCCTGGAGCGCGCCAAGAAGCGGGTGACCTTCTGGTGGTGGCAATCCTGGCGGTGTGC  
 CTCCTCTGCTGGACGCCCTACCACCTGAGACCGTGGTGGCGCTCACCACCGACCTCCCG  
 CAGACGCCGCTGGTATCGCTATCTCCTACTTCATCACCAGCCTGAGCTACGCCAACAGC  
 TGCCTCAACCCCTTCTCTACGCCTTCTGGACGCCAGCTTCCGAGGAACCTCCGCCAG  
 CTGATAACTTGCCGCGCGCAGCCTGA



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_005285 unedited  
 GGAAACTCGGATTTGTAACGACTTATATAGGCGGCCGCCAGTGTGATGTGAATCTGCAG  
 AATTTCGGCTTCTCGTTGAGATGGACAACGCCTCGTTCTCGGAGCCCTGGCCCGCAACG  
 CATCGGGCCCGGACCCGGCGCTGAGCTGCTCAACGCCTCGACTTGGCGCCGCTGCCGG  
 CGCCGCTGGCGGTGGCTGTACCAGTTGTCTACGCGGTGATCTGCGCCGTGGGTCTGGCGG  
 GCAACTCCGCCGTGCTGTACGTGTTGCTGCGGGCGCCCGCATGAAGACCGTCACCAACC  
 TGTTTCATCCTCAACCTGGCCATCGCCGACGAGCTTTCACGCTGGTGTGCCCATCAACA  
 TCGCCGACTTCTGCTGCGGCAGTGGCCCTTCGGGGAGCTCATGTGCAAGCTCATCGTGG  
 CTATCGACCAGTACAACACCTTCTCCAGCCTCTACTTCTCACCGTCATGAGCGCCGACC  
 GCTACCTGGTGGTGTGGCCACTGCGGAGTGCGCCGGGTGGCCGGCCGACCTACAGCG  
 CCGCGCGCGGTGAGCCTGGCCGTGTGGGGATCGTCACACTCGTGTGCTGCCCTTCG  
 CAGTCTTCGCCCGGTAGACGACGAGCAGGGCCGGCGCCAGTGCCTGTAGTCTTTCCGC  
 AGCCCGAGGCCTTCTGGTGGCGCGGAGCCGCTCTACACGCTCGTGTGGGCTTCGCCA  
 TCCCCGTGTCCACCATCTGTGCTCTATACCACCTGCTGTGCCGGCTGCATGCCATGC  
 GGCTGGACAGCCACGCCAAGCCCTGGAGCGCCNAGAAGCGGGTGACCTTCTGGTGGT  
 GGCATCCCTGGCGGTGTGCTCCTCTGCTGGACGCCCTACACCTGAGCACCGTGTGGCGCT  
 AACAACTGACTCCCGCAGAGCC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_005285 unedited  
 AGGATAGCACTGGGNGAGGTACAGGGCAGCCACCCGGGCATCTGTTTCAGAAAACAGCT  
 ATGACCGCGCCGCAATCTATAGTCGACAAGCTTGATATCGGTACCGAGCTCGGATCCAC  
 TAGTAACGGCCCGCAGTGTGCTGGAGGTCGGCTTGACGCTGGGGAGTCAGGCTGCCCGC  
 CGCAAGTTATCAGCTGGCGGATGTTCTCGGGAAGCTGGCGTCCAGGAAGGCGTATAGG  
 AAGGGTTGAGGCAGCTGTTGGCGTATCTCAAGCTGGTATGAAGTAAGAGATAGCGATG  
 ACCAGCGCGCTGCGGGAGGTCGGTGGTGGAGGCCACCCAGGTCATGTGGTAGGGC  
 GTCCAGCAGAGGAGGCACACCCGAGGATTGCCACCACAGGAAGGTACCCCGCTTCTTG  
 GCGCGCTCCAGGGCCTTGGCGTGGCTGTCCAGCCGCATGGCATGCAGCCGGCACAGCAGG  
 GTGGTATAGAGGACACAGATGGTGGACACGGGGATGGCGAAGCCAGCAGCAGCGTGTAG  
 AGGCGGCTCGCGGCCACCAGAAGGCTCGGGCTGCGGAAAGACTAGCACGCACTGGCGC  
 CGGCCCTGCTCGTCTAGCCGGGCGAAGACTGGCGAAGGCAGCAGCAGAGTGTGACG  
 ATCCCCACACGGCCAGGCTCACCGCGCGCGGCGCTGTATGTGCGGCCGGCCACCCGG  
 CGCGACTTCGCAGTGGCCAACACCACCATGTAGCCGTCCGCGCTCATGACGGTGAAGAAA  
 TAAAGGCTGAAAAGGTGTTGTACTGGTCGATAACCAG

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_005285

**Insert Size:**

1050 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\\_005285.3](#), [NP\\_005276.2](#)

**RefSeq Size:** 987 bp

**RefSeq ORF:** 987 bp

**Locus ID:** 2831

**UniProt ID:** [P48145](#)

**Cytogenetics:** 8q11.23

**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Protein Pathways:** Neuroactive ligand-receptor interaction

**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. Has a higher affinity for neuropeptide B.[UniProtKB/Swiss-Prot Function]