

## Product datasheet for SC119604

### NPY1R (NM\_000909) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NPY1R (NM_000909) Human Untagged Clone
Tag:	Tag Free
Symbol:	NPY1R
Synonyms:	NPY1-R; NPYR
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119604 sequence for NM_000909 edited (data generated by NextGen Sequencing)

```

ATGAATTCAACATTATTTTCCCAGTTGAAAATCATTTCAGTCCACTCTAATTTCTCAGAG
AAGAATGCCAGCTTCTGGCTTTTGAAAATGATGATTGTCTATCTGCCCTTGGCCATGATA
TTTACCTTAGCTCTTGGCTTATGGAGCTGTGATCATTCTTGGTGTCTCTGAAACCTGGCC
TTGATCATAATCATCTTGAAACAAAAGGAGATGAGAAATGTTACCAACATCCTGATTGTG
AACCTTTCCTTCTCAGACTTGGCTTGTGGCCATCATGTGTCTCCCTTTACATTTGTCTAC
ACATTAATGGACCACTGGGTCTTGGTGAGGCGATGTGTAAGTTGAATCCTTTTGTGCAA
TGTGTTTCAATCACTGTGTCCATTTTCTCTCTGGTTCTCATTGCTGTGGAACGACATCAG
CTGATAATCAACCCTCGAGGGTGGAGACCAATAATAGACATGCTTATGTAGGTATTGCT
GTGATTTGGGTCCTTGTGTGGCTTCTTCTTGCCTTTCCTGATCTACCAAGTAATGACT
GATGAGCCGTTCCAAAATGTAACACTTGATGCGTACAAAGACAAATACGTGTGCTTTGAT
CAATTTCCATCGGACTCTCATAGTTGTCTTATACCACTCTCCTCTTGGTGTGTCAGTAT
TTTGGTCCACTTTGTTTTATATTTTGTACTTCAAGATATATATACGCCATAAAAAGG
AGAAACAACATGATGGACAAGATGAGAGACAATAAGTACAGGTCCAGTGAAACCAAAAAGA
ATCAATATCATGCTGCTCCTCATTGTGGTAGCATTGTCAGTCTGCTGGCTCCCTCTTACC
ATCTTTAACACTGTGTTTGAATGGAATCATCAGATCATTGCTACCTGCAACCACAATCTG
GGTTCCTGAACAAAAACTTCCAGAGAGACTTGCAGTTCTTCTTCAACTTTTGTGATTTCC
CGGTCTCGGATGATGATTATGAAACAATAGCCATGTCCACGATGCACACAGATGTTTCC
AAAACCTCTTTGAAGCAAGCAAGCCAGTCGCATTTAAAAAATCAACAACAATGATGAT
AATGAAAAATCTGA

```

Clone variation with respect to NM\_000909.5



[View online »](#)

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_000909 unedited  
 CCCAATTACNATTTGTATACGACTTTTATAGGCGGCCGGAATCGCACGAGGGAGGTCTG  
 TGTCGAATAATGTGTGGCTTCTGTTGGATTGCTTTTCTTCCAAAATTCCTAGGCAATGC  
 TTCCCCGAGGTGTGCACCTTTGTGAGGTGTTGTGGGGTTGGGGGAGCTTCAGGCGCTAC  
 TCGCGGGACGCCGTCACGTGATCCGGGATGAGGTGGAGTTCGGCTTTAAGGAGGCGTCTC  
 TTCCTAGCTTTCATCAATCTTTAGGATCTGAGCAGGAGAAAATACCAGCGGATCTTCCCAC  
 TCTGCTCCCTTCCATTCCCACCCTTCTTCTTTAATAAGCAGGAGCGAAAAAGACAAATT  
 CCAAAGAGGATTGTTCAAGTTCAAGGGAATGAAGAATTCAGAATAATTTTGGTAAATGGAT  
 TCCAATATGGGGAATAAGAATAAGCTGAACAGTTGACCTGCTTTGAAGAAACATACTGTC  
 CATTTGTCTAAAATAATCTATAACAACCAACCAATCAAATGAATTCACATTATTTTC  
 CCAGGTTGAAAATCATTCACTCCACTCTAATTTCTCAGAGAAGAATGCCAGCTTCTGGC  
 TTTTGAAGATGATGATTGTCATCTGCCCTTGGCCATGATTTACCTTAGCTCTTGCTTA  
 TGGAGCTGTGATCATTCTGGTGTCTCTGGCAACCTGGCCTTGATCATAATCATCTTGAA  
 ACTAAAGAGATGAGAAAATGTTACCAACATCCTGATTGTGAACCTTCTCTCAGACTTG  
 CTTGGTGCCATCATGTGTCTCCCTATACATTTGTCTACCATTAATGGACCACTGGGTCT  
 TTGGTGAGGCGATGTGTAAGTTGAAACCCTTTGTGCATGTGTTTCAACACTGGGGCCATT  
 TCTCTCTGGTCTCATGCTGCC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_000909 unedited  
 ACAATATATGCATCTTTAATTAATGTNCACGCCCTTTAAAAATCAAACACATGTAAT  
 ACTTTATTCTGTATAATACATTGAAGTATGTCTTGTCTTTAAAAATATAGTTTCTCCAAA  
 TGATTCTGAGGCTCAATCATGATTACAAGATACATGAAATTAGGCACATTAACATGACAC  
 AACTATTAGTAATCTTTACAGTGCATTATTTATAAGACGCCACAAGTCACACAGTTTAT  
 ACAAGTTAAAATGGGCTATATGAAGTATCTGCAGTTTTGTGTATTTTCCCTGCTAGGT  
 AAAGTGAATATTCCTTTAACATTGTACCTTGGTGTACTTCTTTGAAAGATGGACATTG  
 AAAGTTAAAAATCAGTCACTATATAGGCACTGCTGTATGGAAAACGCATTTTGTGTTTCT  
 ACAAATTTGAAGCGGAAATGCCTTTTGTGAGTACATATTTATGCCAGAAAGCTTGACAAACA  
 CTGAACAGTCTGTAAAAAAATGGAAAATCTCTTGACCATCAATCAAATAAATAAATT  
 TAACTATTTGCAGCAATACTAATTTACTTTATTAATTAATTACTCTAAAAAGCTCTTGT  
 TGTCAAGTACCAAAATGGTTTTGAAGTTAAGGAGCTGCTTTCTCTTTCATTCTTAAAT  
 TGCCCCAATTCATAAATATTTGCAGCTGAGAAGTATGTCTTTTATTCACTTAAAT  
 TTTCACTAAGTGACCATCAGTTGGGAGCAAATTAATCCTCCCTCAGGTGAAAAAATA  
 AAAAACAAACAATAACCACCAAAAAACAGAAACCTCAAACCACTTCTGAATGACTTCAGA  
 CTATCTTTCGGCTCCTGAATGCTGCCTTGCATACTGTTACTATTGGAACACACTAAAAT  
 GATGCCCTATCATAAGTAAGGATGGCCCAATCGTTGACATTCAATCAATCAATCAATCA  
 GATGACCCATCTATGACCGTTGGATGGAAGTCCTCTGAGTAGCTAATGAATACTTTAGAA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_000909

**Insert Size:**

3370 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](mailto: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](#)

**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\\_000909.4](#), [NP\\_000900.1](#)

**RefSeq Size:** 2775 bp

**RefSeq ORF:** 1155 bp

**Locus ID:** 4886

**UniProt ID:** [P25929](#)

**Cytogenetics:** 4q32.2

**Domains:** 7tm\_1

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

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

**Gene Summary:** This gene belongs to the G-protein-coupled receptor superfamily. The encoded transmembrane protein mediates the function of neuropeptide Y (NPY), a neurotransmitter, and peptide YY (PYY), a gastrointestinal hormone. The encoded receptor undergoes fast agonist-induced internalization through clathrin-coated pits and is subsequently recycled back to the cell membrane. Activation of Y1 receptors may result in mobilization of intracellular calcium and inhibition of adenylate cyclase activity. [provided by RefSeq, Aug 2013]