

## Product datasheet for **RC210410**

### NPY2R (NM\_000910) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NPY2R (NM\_000910) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** NPY2R  
**Synonyms:** NPY2-R  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC210410 representing NM\_000910  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGTCCAATAGGTGCAGAGGCTGATGAGAACCAGACAGTGAAGAAATGAAGGTGGAACAATACGGGC  
CACAAACAACTCCTAGAGGTGAAGTGGTCCCTGACCCAGCCAGAGCTTATAGATAGTACCAAGCTGAT  
TGAGGTACAAGTTGTTCTCATATTGGCCTACTGCTCCATCATCTTGCTTGGGTAATTGGCAACTCCTTG  
GTGATCCATGTGGTATCAAATCAAGAGCATGCGCACAGTAACCAACTTTTTCATTGCCAATCTGGCTG  
TGGCAGATCTTTTGGTGAACACTCTGTGTCTACCGTTCCTTACCTATACCTAATGGGGAGTGGAA  
AATGGGTCTGTCTGTGCCACCTGGTGCCTATGCCAGGGCCTGGCAGTACAAGTATCCACAATCACC  
TTGACAGTAATTGCCCTGGACCGGCACAGGTGCATCGTCTACCACCTAGAGAGCAAGATCTCCAAGCGAA  
TCAGCTTCTGATTATTGGCTTGGCCTGGGGCATCAGTGCCTGTGGCAAGTCCCTGGCCATCTTCCG  
GGAGTATTCGCTGATTGAGATCATCCCGGACTTTGAGATTGTGGCCTGTACTGAAAAGTGGCCTGGCGAG  
GAGAAGAGCATCTATGGCACTGTCTATAGTCTTCTTCTTGTGATCTGTATGTTTTGGCTCTGGGCA  
TTATATCATTTTCTACACTCGCATTTGGAGTAAATTGAAGAACCATGTCAGTCTGGAGCTGCAATGA  
CCACTACCATCAGCGAAGGCAAAAACCACCAAAATGCTGGTGTGTGGTGGTGGTGTGGCGGTCAGC  
TGGCTGCCTCTCCATGCCTTCCAGTTCGCCGTTGACATTGACAGCCAGGCTCTGGACCTGAAGGATACA  
AACTCATCTTACAGTGTCCACATCATCGCCATGTGCTCCACTTTTGCCAATCCCTTCTCTATGGCTG  
GATGAACAGCAACTACAGAAAGGCTTCTCTCGGCTTCCGCTGTGAGCAGCGTTGGATGCCATTAC  
TCTGAGGTGTCCGTGACATTCAGGCTAAAAGAACCCTGGAGGTCAGAAAGAACAGTGGCCCAATGACT  
CTTTCACAGAGGCTACCAATGTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC210410 representing NM\_000910  
 Red=Cloning site Green=Tags(s)

MGPIGAEADENQTV EEMKVEQYGPQTTPRGELVPDPEPELIDSTKLI EVQVVLILAYCS IILLGVIGNSL  
 VIHVVIKFKSMRTVTNFFIANLAVADLLVNTLCLPFTLYTLMGEWKMGPVLCHLV PYAQGLAVQVSTIT  
 LTVIALDRHRCIVYHLESKISKRISFLIIGLAWGISALLASPLAIFREYSLIEIIPDFEIVACTEKWPGE  
 EKSIYGTVYSL SLLILVYVPLGIISFSYTRIWSKLNHVSPGAANDHYHQRRQKTTKMLVCVVVFAVS  
 WLPLHAFQLAVDIDSQVLDLKEYKLIFTVFHIIAMCSTFANPLL YGWMNSNYRKAFLSAFRCEQRLDAIH  
 SEVSVTFKAKKNLEVRKNSGPNDSFTEATNV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg3276\\_g05.zip](https://cdn.origene.com/chromatograms/mg3276_g05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_000910

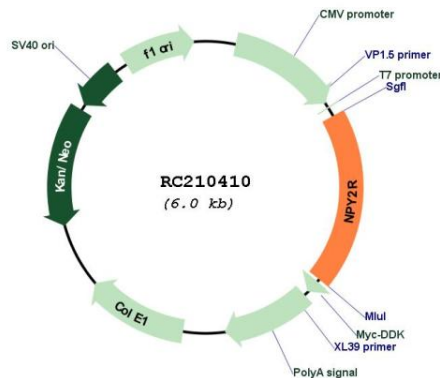
**ORF Size:** 1143 bp

**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](#)

<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_000910.4</a>
<b>RefSeq Size:</b>	3747 bp
<b>RefSeq ORF:</b>	1146 bp
<b>Locus ID:</b>	4887
<b>UniProt ID:</b>	<a href="#">P49146</a>
<b>Cytogenetics:</b>	4q32.1
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Neuroactive ligand-receptor interaction
<b>MW:</b>	42.6 kDa
<b>Gene Summary:</b>	Receptor for neuropeptide Y and peptide YY. The rank order of affinity of this receptor for pancreatic polypeptides is PYY > NPY > PYY (3-36) > NPY (2-36) > [Ile-31, Gln-34] PP > [Leu-31, Pro-34] NPY > PP, [Pro-34] PYY and NPY free acid.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RC210410