

Product datasheet for **RG210410**

NPY2R (NM_000910) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPY2R (NM_000910) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NPY2R
Synonyms:	NPY2-R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210410 representing NM_000910 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGGTCCAATAGGTGCAGAGGCTGATGAGAACCAGACAGTGAAGAAATGAAGGTGGAACAATACGGCCACAAACAACCTCCTAGAGGTGAACTGGTCCCTGACCCAGCCAGAGCTTATAGATAGTACCAAGCTGATGAGGTACAAGTTGTTCTCATTTGGCCTACTGCTCCATCATCTTGCTTGGGTAATTGGCAACTCCTGTGATCCATGTGGTGATCAAATCAAGAGCATGCGCACAGTAACCAACTTTTTCATTGCCAATCTGGCTGTGGCAGATCTTTGGTGAACACTCTGTGTCTACCGTTCCTTACCTATACCTAATGGGGAGTGGAAATGGGTCTGTCTGTGCCACCTGGTGCCTATGCCAGGGCCTGGCAGTACAAGTATCCACAATCACC TTGACAGTAATTGCCCTGGACCGGCACAGGTGCATCGTCTACCACCTAGAGAGCAAGATCTCCAAGCGAATCAGCTTCTGATTATTGGCTTGGCCTGGGGCATCAGTGCCTGTGGCAAGTCCCTGGCCATCTCCGGAGTATTCGCTGATTGAGATCATTCCGGACTTTGAGATTGTGGCCTGTACTGAAAAGTGGCCTGGCGAGGAGAAGAGCATCTATGGCACTGTCTATAGTCTTCTCTTGTGATCTGTATGTTTTGCCCTCTGGGCA TTATATCATTTTCCCTACACTCGCATTGGAGTAAATTGAAGAACCATGTCAAGTCTGGAGCTGCAAATGACCACTACCATCAGCGAAGGCAAAAACCACCAAAATGCTGGTGTGTGGTGGTGGTGTGCGGTCAGCTGGCTGCCTCCATGCCTTCCAGTTGCCGTTGACATTGACAGCCAGGCTGGACCTGAAGGAGTACA AACTCATCTTACAGTGTCCACATTATCGCCATGTGCTCCACTTTTGCCAATCCCTTCTCTATGGCTG GATGAACAGCAACTACAGAAAGGCTTCTCTCGCCTCCGCTGTGAGCAGCGTTGGATGCCATTCACTCTGAGGTGTCGGTGACATTCAAGGCTAAAAGAACCTGGAGGTCAGAAAGAACAGTGGCCCAATGACTCTTTCACAGAGGCTACCAATGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210410 representing NM_000910
 Red=Cloning site Green=Tags(s)

MGPIGAEADENQTV EEMKVEQYGPQTTPRGELVPDPEPELIDSTKLI EVQVVLILAYCSII LLGVIGNSL
 VIHVVIKFKSMRTVTNFFIANLAVADLLVNTLCLPFTLTYTLMGEWKMGPVLCHLVPYAQGLAVQVSTIT
 LTVIALDRHRCIVYHLESKISKRISFLIIGLAWGISALLASPLAIFREYSLIEIIPDFEIVACTEKWPGE
 EKSIYGTVYSLSSLLILYVLPGLIISFSYTRIWSKLNKHNHVS PGAANDHYHQRRQKTKMLVCVVVFAVS
 WLPLHAFQLAVDIDSQVLDLKEYKLIFTVFHIIAMCSTFANPLL YGWMNSNYRKAFLSAFRCEQRLDAIH
 SEVSVTFKAKKNLEVRKNSGPNDSFTEATNV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000910

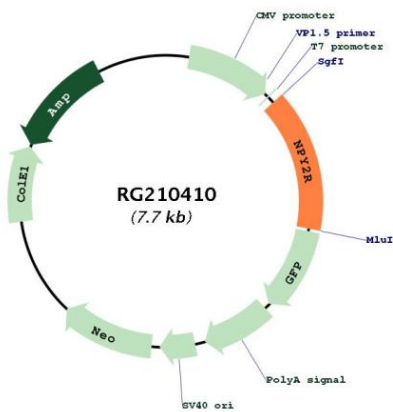
ORF Size: 1143 bp

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 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none"> 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:	<u>NM_000910.2, NP_000901.1</u>
RefSeq Size:	3747 bp
RefSeq ORF:	1146 bp
Locus ID:	4887
UniProt ID:	<u>P49146</u>
Cytogenetics:	4q32.1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	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 RG210410