

Product datasheet for **RG219358**

NPY4R (NM_005972) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPY4R (NM_005972) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NPY4R
Synonyms:	NPY4-R; PP1; PPYR1; Y4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219358 representing NM_005972 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGAACACCTCTCACCTCTGGCCTTGCTGCTCCAAAATCTCCACAAGGTGAAAACAGAAGCAAACCCCTGGGCACCCCATACAACCTCTCTGAACATTGCCAGGATTCGGTGGACGTGATGGTCTTCATCGTCACTTCTACAGCATTGAGACTGTCGTGGGGTCTGGGTAACTCTGCCTGATGTGTGACTGTGAGGCAGAAGGAGAAAGCCAACGTGACCAACCTGCTTATCGCCAACCTGGCCTTCTGACTTCCTCATGTGCCTCTCTGCCAGCCGCTGACCTCCGTCTACACCATCATGGACTACTGGATCTTTGGAGAGACCCTCTGCAAGATGTCGGCCTTATCCAGTGATGTCGGTGACGGTCTCCATCCTCTCGCTCGTCCGTGGCCCTGGAGAGGCATCAGCTCATCATCAACCCAACAGGCTGGAAGCCAGCATCTCACAGGCCTACCTGGGGATTGTGCTCATCTGGGTCAATTGCCTGTGCTCCTCCCTGCCCTTCTGGCCAACAGCATCCTGGAGAATGTCTTCCACAAGAACCACTCCAAGGCTCTGGAGTTCTGGCGGATAAGGTGGTCTGTACCGAGTCCCTGGCCACTGGCTCACCACCGCACCATCTACACCACCTTCTGCTCCTTCCAGTACTGCCTCCACTGGGCTTCATCTTGGTCTGTTATGCACGCATCTACCGCGCCTGCAGAGGCAGGGCGCGTGTTCACAAGGGCACCTACAGCTTGCAGCTGGGCACATGAAGCAGGTCAATGTGGTCTGGTGGTGTGATGGTGGTGGCCTTTGCCGTGCTCTGGCTGCCTCTGCATGTGTTCAACAGCCTGGAAGACTGGCACCATGAGGCCATCCCCATCTGCCATGGGAACCTCATCTCTTAGTGTGCCACTTGCTTGCCATGGCCTCCACCTGTGTCAACCCATTATCTATGGCTTCTCAACACCAACTTCAAGAAGGAGATCAAGGCCCTGGTGTGACTTGCAGCAGAGCGCCCCCTGGAGGAGTCAAGCATCTGCCCTGTCCACAGTACATACGGAAGTCTCCAAGGGTCCCTGAGGCTAAGTGGCAGGTCCAATCCATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219358 representing NM_005972
 Red=Cloning site Green=Tags(s)

MNTSHLLALLLPKSPQGENRSKPLGTPYNFSEHCQDSVDVMVFIVTSYSIETVVGVLGNLCLMCVTVRQK
 EKANVTNLLIANLAFSDFLMCLLCQPLTSVYTIMDYWIFGETLCKMSAFIQCMSVTVSILSLVLVALERH
 QLIINPTGWKPSISQAYLGIVLIWVIACVLSLPLFLANSILENVFHKHNSKALEFLADKVVCTESWPLAHH
 RTIYTTFFLLLFQYCLPLGFILVCYARIYRRLQRQGRVFHKGTYSLRAGHMKQVNVVLVVMVVAFAVLWLP
 LHVFNSLLEDWHHEAIPICHGNLIFLVCHLLAMASTCVNPFYIGFLNTNFKKEIKALVLTCCQSAPLEESE
 HLPLSTVHTEVSKGSLRLSGRSNPI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005972

ORF Size: 1125 bp

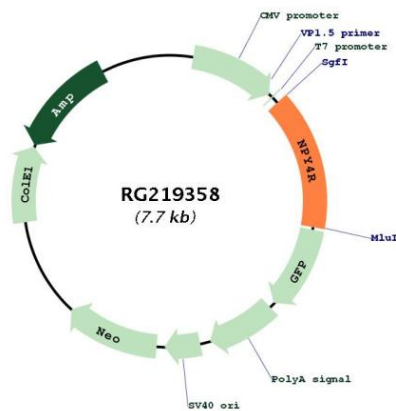
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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_005972.3, NP_005963.2</u>
RefSeq Size:	1956 bp
RefSeq ORF:	1128 bp
Locus ID:	5540
UniProt ID:	<u>P50391</u>
Cytogenetics:	10q11.22
Domains:	7tm_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 PP, PP (2-36) and [Ile-31, Gln-34] PP > [Pro-34] PYY > PYY and [Leu-31, Pro-34] NPY > NPY > PYY (3-36) and NPY (2-36) > PP (13-36) > PP (31-36) > NPY free acid. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG219358