

Product datasheet for **RG237826**

NPY4R (NM_001278794) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPY4R (NM_001278794) 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:	>RG237826 representing NM_001278794. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTAACCGTCAGAATTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG  
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC  
ATGAACACCTCTCACCTCTGGCCTTGCTGCCAAAATCTCCACAAGGTGAAAACAGAAGCAAACCC  
CTGGGCACCCCATACAACCTTCTGAACATTGCCAGGATCCGTTGGACGTGATGGTCTTCATCGTCACT  
TCCTACAGCATTGAGACTGTCTGGGGTCTGGGTAACCTCTGCCTGATGTGTGACTGTGAGGCAG  
AAGGAGAAAGCCAACGTGACCAACCTGCTATCGCCAACCTGGCCTTCTGACTTCTCATGTGCCTC  
CTCTGCCAGCCGCTGACCGCCGTACACCATCATGGACTACTGGATCTTTGGAGAGACCCTCTGCAAG  
ATGTCGGCCTTATCCAGTGCATGTCGGTGACGGTCTCCATCCTCTCGCTCGTCTCGTGGCCCTGGAG  
AGGCATCAGTCAATCAACCAACAGGCTGGAAGCCAGCATCTCACAGGCCTACCTGGGATTGTG  
CTCATCTGGGTCATTGCCTGTCTCTCCCTGCCCTTCTGGCCAACAGCATCCTGGAGAATGTCTTC  
CACAAGAACCCTCCAAGGCTCTGGAGTCTGGCGGATAAGGTGGTCTGTACCGAGTCTGGCCACTG  
GCTCACCACCGCACCATCTACACCACCTTCTGCTCCTCTTCCAGTACTGCCTCCCACTGGGCTTCATC  
TTGGTCTGTTATGCACGCATCTACCGGTGCTGCAGAGGCAGGGGCGCGTGTTCACAAGGGCACCTAC  
AGCTTGCAGCTGGGCACATGAAGCAGGTCAATGTGGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT  
CTCTGGCTGCCTCTGCATGTGTTCAACAGCCTGGAAGACTGGCACCATGAGGCCATCCCCATCTGCCAT  
GGGAACCTCATCTTCTTAGTGCCACTTGCTTGGCCTGCGCTTCCACCTGTGCAACCCATTCATCTAT  
GGCTTTCTCAACACCAACTTCAAGAAGGAGATCAAGGCCCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT  
CTGGAGGAGTCAGAGCATCTGCCCTGTCCACAGTACATACGGAAGTCTCCAAGGGTCCCTGAGGCTA  
AGTGGCAGGTCCAATCCATT  
ACGCGTACGCGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237826
 Blue=ORF Red=Cloning site Green=Tag(s)

MNTSHLLALLLPKSPQGENRSKPLGTPYNFSEHCQDSVDVMVFIVTSYSIETVVGLGNLCLMCVTVRQ
 KEKANVTNLLIANLAFSDFLMCLLCQPLTAVYTIMDYWIFGETLCKMSAFIQCMSVTVSILSLVLALE
 RHQLIINPTGWKPSISQAYLGIVLIWVIACVLSLPLANSILENVFHKNHKALEFLADKVVCTESWPL
 AHHRTIYTTFLLLFYQCLPLGFILVCYARIYRCLQRQGRVFKGTYSLRAGHMKQVNVVLVVMVFAFV
 LWLPLHVFNSLELDWHHEAIPICHGNLIFLVCHLLAMASTCVNPFYIGFLNTNFKKEIKALVLTCCQSAP
 LEESEHLPLSTVHTEVSKGSLRLSGRSNPI
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001278794

ORF Size: 1125 bp

OTI Disclaimer: 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.

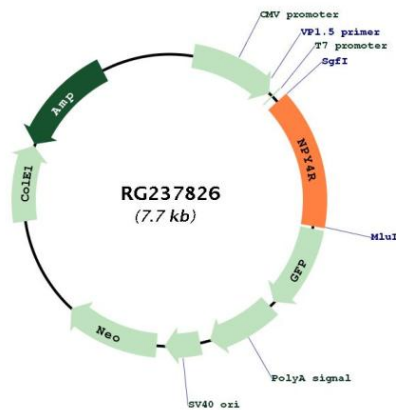
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

RefSeq: [NM_001278794.1](#), [NP_001265723.1](#)

RefSeq Size: 1800 bp

RefSeq ORF:	1128 bp
Locus ID:	5540
UniProt ID:	P50391
Cytogenetics:	10q11.22
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
MW:	42.6 kDa
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 RG237826