

Product datasheet for **RC237826**

NPY4R (NM_001278794) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NPY4R (NM_001278794) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NPY4R
Synonyms: NPY4-R; PP1; PPYR1; Y4
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC237826 representing NM_001278794
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACACCTCTCACCTCTGGCCTTGCTGCTCCAAAATCTCCACAAGGTGAAAACAGAAGCAAACCC
TGGGCACCCCATACAACCTCTCTGAACATTGCCAGGATTCGTGGACGTGATGGTCTTCATCGTCACTTC
CTACAGCATTGAGACTGTCGTGGGGTCTGGGTAACTCTGCCTGATGTGTGTGACTGTGAGGCAGAAG
GAGAAAGCCAACGTGACCAACCTGCTTATCGCCAACCTGGCCTTCTGACTTCCTCATGTGCCTCCTCT
GCCAGCCGCTGACCGCCGTCTACACCATCATGGACTACTGGATCTTTGGAGAGACCTCTGCAAGATGTC
GGCCTTCATCCAGTGCATGTCGGTGACGGTCTCCATCCTCTCGCTCGTCCCTCGTGGCCCTGGAGAGGCAT
CAGCTCATCATCAACCAACAGGCTGGAAGCCAGCATCTCACAGGCCTACCTGGGGATTGTGCTCATCT
GGGTCAATGCCTGTGCTCCTCCCTGCCCTTCTGGCCAACAGCATCCTGGAGAATGTCTCCACAAGAA
CCACTCCAAGGCTCTGGAGTTCCTGGCGGATAAGGTGGTCTGTACCGAGTCTGGCCACTGGCTCACCAC
CGCACCATCTACACCACCTTCTGCTCCTCTCCAGTACTGCCTCCACTGGGCTTCATCTTGGTCTGTT
ATGCACGCATCTACCGGTGCTGCAGAGGCAGGGGCGCGTGTTCACAAGGCACCTACAGCTTGGCAGC
TGGGCACATGAAGCAGGTCAATGTGGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
TGGCCTTTGCCGTGCTCTGGCTGCTCTGCATGTGTTCAACAGCCTGGAAGACTGGCACCATGAGGCCATCCCATCTGCCATGGGAACCTCATCT
TCTTAGTGTGCCACTTGCTTGGCATGGCCTCCACCTGTGTCAACCCATTATCTATGGCTTCTCAACAC
CAACTTCAAGAAGGAGATCAAGGCCCTGGTGTGACTTGGCAGCAGAGCGCCCCCTGGAGGAGTCAGAG
CATCTGCCCTGTCCACAGTACATACGGAAGTCTCCAAGGGTCCCTGAGGCTAAGTGGCAGGTCCAATC
CCATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237826 representing NM_001278794
Red=Cloning site Green=Tags(s)

MNTSHLLALLLPKSPQGENRSKPLGTPYNFSEHCQDSVDVMVFIVTSYSIETVVGVLGNLCLMCVTVRQK
 EKANVTNLLIANLAFSDFLMCLLCQPLTAVYTIMDYWIFGETLCKMSAFIQCMSVTVSILSLVVALERH
 QLIINPTGWKPSISQAYLGIVLWVIACVLSLPLANSILENVFHKHNSKALEFLADKVVCTESWPLAHH
 RTIYTTFFLLLFQYCLPLGFILVCYARIYRCLQRQGRVFHKGTYSLRAGHMKQVNVVLLVMVVAFAVLWLP
 LHVFNSLLEDWHHEAIPICHGNLIFLVCHLLAMASTCVNPFYIGFLNTNFKKEIKALVLTCCQSAPLEESE
 HLPLSTVHTEVSKGSLRLSGRSNPI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

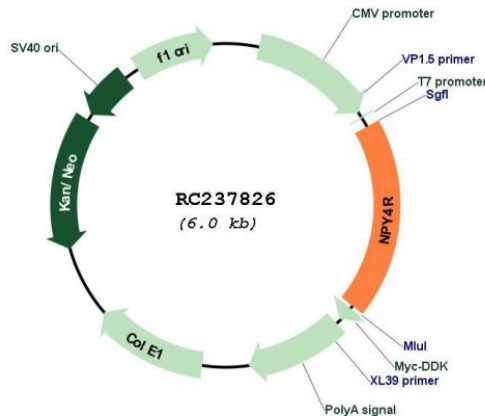
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



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).
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:	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]