

Product datasheet for **RG206525**

NPY5R (NM_006174) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPY5R (NM_006174) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NPY5R
Synonyms:	NPY5-R; NPYR5; NPYY5-R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206525 representing NM_006174
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATTTAGAGCTCGACGAGTATTATAACAAGACACTTGCCACAGAGAATAATACTGCTGCCACTCGGA
 ATTCTGATTTCCAGTCTGGGATGACTATAAAAGCAGTGTAGATGACTTACAGTATTTTCTGATTGGGCT
 CTATACATTTGTAAGTCTTCTTGCTTTATGGGAATCTACTTATTTAATGGCTCTCATGAAAAAGCGT
 AATCAGAAGACTACGGTAACTTCTCATAGGCAATCTGGCCTTTTCTGATATCTTGGTTGTGCTGTTTT
 GCTCACCTTTACACTGACGTCTGTCTTGGTGGATCAGTGGATGTTTGGCAAAGTCATGTGCCATATTAT
 GCCTTTTCTTCAATGTGTGTCAGTTTTGGTTTCAACTTTAATTTAATATCAATTGCCATTGTCAGGTAT
 CATATGATAAAACATCCCATATCTAATAATTTAACAGCAAACCATGGCTACTTTCTGATAGCTACTGTCT
 GGACACTAGGTTTTGCCATCTGTTCTCCCCTCCAGTGTTCACAGTCTTGTGAACTTCAAGAAACATT
 TGGTTCAGCATTGCTGAGCAGCAGGATTTATGTGTTGAGTCATGCCATCTGATTCATACAGAATTGCC
 TTTACTATCTCTTATTGCTAGTTCAGTATATTCTGCCCTTAGTTTGTCTTACTGTAAGTCATACAAGTG
 TCTGCAGAAGTATAAGCTGTGGATTGTCCAACAAGAAAACAGACTTGAAGAAAATGAGATGATCAACT
 AACTCTTCATCCATCCAAAAAGAGTGGGCTCAGGTGAACTCTCTGGCAGCCATAAATGGAGTTATTCA
 TTCATCAAAAAACACAGAAGAAGATATAGCAAGAAGACAGCATGTGTGTTACCTGCTCCAGAAAGACCTT
 CTCAAGAGAACCCTCCAGAATACTTCCAGAAAACCTTTGGCTCTGTAAGAAGTCAGCTCTCTTATCCAG
 TAAGTTCATACCAGGGTCCCCTTGGCTTGGAGTAAACCTGAAGAAAATTCAGATGTTTCAATGAAATTG
 AGAGTAAACGTTCTGTTACAAGAATAAAAAAGAGATCTCGAAGTGTCTTCTACAGACTGACCATACTGA
 TATTAGTATTTGCTGTTAGTTGGATGCCACTACACCTTTCCATGTGTAAGTAACTGATTTTAAATGACAATCT
 TATTTCAAAATAGCATTTCAGTTGTTGATTGCATTTGTCATTTGTTGGGCATGATGTCCTGTTGTCTT
 AATCCAATTCTATATGGGTTTCTTAATAATGGGATTAAGCTGATTTAGTGTCCCTTATACACTGTCTTC
 ATATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG206525 representing NM_006174
 Red=Cloning site Green=Tags(s)

MDLELDEYYNKTLATENNTAATRNDFPVWDDYKSSVDDLQYFLIGLYTFVSLLGFMGNLLILMALMKKR
 NQKTTVNFLIGNLAFSDILVVLFCSPFTLTSVLLDQWMFGKVMCHIMPFLQCVSVLVSTLILISIAIVRY
 HMIKHPISNNLTANHGYFLIATVWTLGFAICSPLPVHSLVELQETFGSALLSSRYLCVESWPSDSYRIA
 FTISLLLVOYILPLVCLTVSHTSVCRSISCGLSNKENRLEENEMINLTLHPSKKSQPQVKLSGSHKWSYS
 FIKKHRRRYSKKTACVLPAPERPSQENHSRILPENFGSVRSQLSSSSKFIPGVPTCFEIKPEENS DVHEL
 RVKRSVTRIKRSRSVYRLTILILVFAVSWMPLHLFHVVTDFNDNLISNRHFKLYVICHLGMMSCCL
 NPILYGLNNGIKADLVSLIHCLHM

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_006174

ORF Size: 1335 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:

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_006174.4](#)

RefSeq Size: 1936 bp

RefSeq ORF: 1338 bp

Locus ID: 4889

UniProt ID: [Q15761](#)

Cytogenetics: 4q32.2

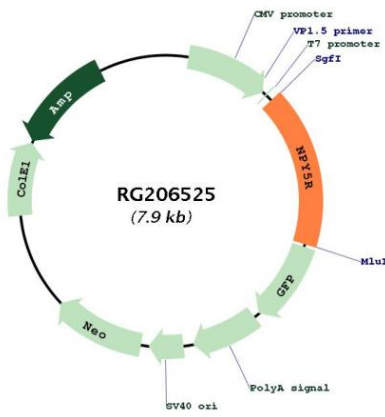
Domains: 7tm_1

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: The protein encoded by this gene is a receptor for neuropeptide Y and peptide YY. The encoded protein appears to be involved in regulating food intake, with defects in this gene being associated with eating disorders. Also, the encoded protein is involved in a pathway that protects neuroblastoma cells from chemotherapy-induced cell death, providing a possible therapeutic target against neuroblastoma. Three transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Nov 2015]

Product images:



Circular map for RG206525