

Product datasheet for **RG208334**

Peptide YY (PYY) (NM_004160) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Peptide YY (PYY) (NM_004160) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Peptide YY
Synonyms: PYY-I; PYY1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG208334 representing NM_004160
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTGTCGTGCGCAGGCCGTCGCCCGCCTTGACCACAGTGCTTCTGGCCCTGCTCGTCTGCCTAGGGG
 CGCTGGTCGACGCTACCCCATCAAACCCGAGGCTCCCGGCGAAGACGCCTCGCCGAGGAGCTGAACCG
 CTACTACGCTCCCTGCGCCACTACCTCAACCTGGTCACCGGCAGCGGTATGGGAAAAGAGACGGCCCG
 GACAGGCTTCTTTCCAAAACGTTCTTCCCGACGGCGAGGACCGCCCGTCAGGTCGCGGTCGGAGGGCC
 CAGACCTGTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG208334 representing NM_004160
 Red=Cloning site Green=Tags(s)
 MVFVRRPWPALTTVLLALLVCLGALVDAYPIKPEAPGEDASPEELNRYASLRHYLNLVTRQRYGKRDPG
 DRLLSKTFFPDGEDRPVRSRSEGPLW

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:



ACCN: NM_004160

ORF Size: 291 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_004160.2](#)

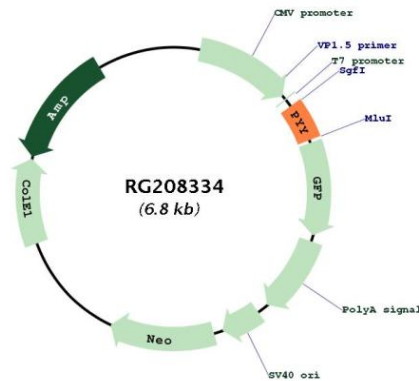
RefSeq Size: 1069 bp

RefSeq ORF: 294 bp

Locus ID: 5697
UniProt ID: [P10082](#)
Cytogenetics: 17q21.31
Protein Families: Secreted Protein, Transmembrane

Gene Summary: This gene encodes a member of the neuropeptide Y (NPY) family of peptides. The encoded preproprotein is proteolytically processed to generate two alternative peptide products that differ in length by three amino acids. These peptides, secreted by endocrine cells in the gut, exhibit different binding affinities for each of the neuropeptide Y receptors. Binding of the encoded peptides to these receptors mediates regulation of pancreatic secretion, gut mobility and energy homeostasis. Rare variations in this gene could increase susceptibility to obesity and elevated serum levels of the encoded peptides may be associated with anorexia nervosa. [provided by RefSeq, Feb 2016]

Product images:



Circular map for RG208334