

Product datasheet for **RG206584**

Pancreatic Polypeptide (PPY) (NM_002722) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pancreatic Polypeptide (PPY) (NM_002722) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPY
Synonyms:	PNP; PP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<p>>RG206584 representing NM_002722 Red=Cloning site Blue=ORF Green=Tags(s)</p> <p>TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC</p> <p>ATGGCTGCCGCACGCCTCTGCCTCTCCCTGCTGCTCCTGTCCACCTGCGTGGCTCTGTTACTACAGCCACTGCTGGGTGCCAGGGAGCCCCACTGGAGCCAGTGTACCCAGGGGACAATGCCACACCAGAGCAGATGGCCAGTATGCAGCTGATCTCCGTAGATACATCAACATGCTGACCAGGCCTAGGTATGGGAAAAGACACAAAGAGGACACGCTGGCCTTCTCGGAGTGGGGTCCCCGCATGCTGCTGTCCCAGGGAGCTCAGCCCCTGGACTTA</p> <p>ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA</p>
Protein Sequence:	<p>>RG206584 representing NM_002722 Red=Cloning site Green=Tags(s)</p> <p>MAAARLCLLLLLSTCVALLLQPLLGAQGAPLEPVYPGDNATPEQMAQYAADLRRYINMLTRPRYKGRHKEDTLAFSEWGSPhAAVPRELSPLDL</p> <p>TRTRPLE - GFP Tag - V</p>
Restriction Sites:	Sgfl-MluI

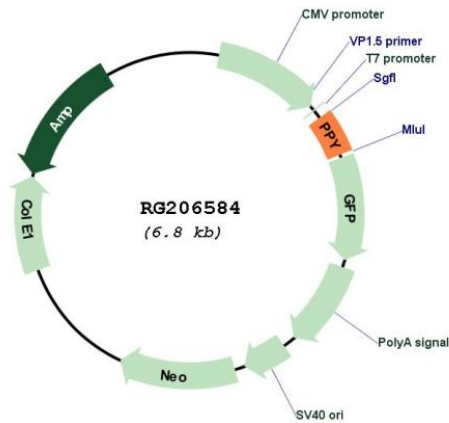


[View online »](#)

Cloning Scheme:



Plasmid Map:



ACCN: NM_002722

ORF Size: 285 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:

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_002722.5](#)

RefSeq Size: 457 bp

RefSeq ORF: 288 bp

Locus ID: 5539

UniProt ID: [P01298](#)

Cytogenetics: 17q21.31

Protein Families: Secreted Protein

Gene Summary:

This gene encodes a member of the neuropeptide Y (NPY) family of peptides. The encoded 95 aa preproprotein is synthesized in the pancreatic islets of Langerhans and proteolytically processed to generate two peptide products. These products include the active pancreatic hormone of 36 aa and an icosapeptide of unknown function. This hormone acts as a regulator of pancreatic and gastrointestinal functions and may be important in the regulation of food intake. Plasma level of this hormone has been shown to be reduced in conditions associated with increased food intake and elevated in anorexia nervosa. In addition, infusion of this hormone in obese rodents has shown to decrease weight gain. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Jan 2016]