Product datasheet for SC313198

NPY4R (NM_005972) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPY4R (NM_005972) Human Untagged Clone
Tag:	Tag Free
Symbol:	NPY4R
Synonyms:	NPY4-R; PP1; PPYR1; Y4
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

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>OriGene sequence for NM_005972 edited
GGCGTCATCCCTCAAGTGTATCACTTAGTTCAAGAGTCCTGGAATCTTTTCACATCCACT
ATGAACACCTCTCACCTCCTGGCCTTGCTGCTCCCAAAATCTCCACAAGGTGAAAACAGA
AGCAAACCCCTGGGCACCCCATACAACTTCTCTGAACATTGCCAGGATTCCGTGGACGTG
ATGGTCTTCATCGTCACTTCCTACAGCATTGAGACTGTCGTGGGGGTCCTGGGTAACCTC
TGCCTGATGTGTGTGACTGTGAGGCAGAAGGAGAAAGCCAACGTGACCAACCTGCTTATC
GCCAACCTGGCCTTCTCTGACTTCCTCATGTGCCTCCTCTGCCAGCCGCTGACCGCCGTC
TACACCATCATGGACTACTGGATCTTTGGAGAGACCCTCTGCAAGATGTCGGCCTTCATC
CAGTGCATGTCGGTGACGGTCTCCATCCTCTCGCTCGTCCTCGTGGCCCTGGAGAGGCAT
CAGCTCATCATCAACCCAACAGGCTGGAAGCCCAGCATCTCACAGGCCTACCTGGGGATT
GTGCTCATCTGGGTCATTGCCTGTGTCCTCTCCCTGCCCTTCCTGGCCAACAGCATCCTG
GAGAATGTCTTCCACAAGAACCACTCCAAGGCTCTGGAGTTCCTGGCGGATAAGGTGGTC
TGTACCGAGTCCTGGCCACTGGCTCACCACCGCACCATCTACACCACCTTCCTGCTCCTC
TTCCAGTACTGCCTCCCACTGGGCTTCATCTTGGTCTGTTATGCACGCATCTACCGGCGC
CTGCAGAGGCAGGGGCGCGTGTTTCACAAGGGCACCTACAGCTTGCGAGCTGGGCACATG
AAGCAGGTCAATGTGGTGCTGGTGGTGATGGTGGTGGCCTTTGCCGTGCTCTGGCTGCCT
CTGCATGTGTTCAACAGCCTGGAAGACTGGCACCATGAGGCCATCCCCATCTGCCATGGG
AACCTCATCTTCTTAGTGTGCCACTTGCTTGCCATGGCCTCCACCTGTGTCAACCCATTC
ATCTATGGCTTTCTCAACACCAACTTCAAGAAGGAGATCAAGGCCCTGGTGCTGACTTGC
CAGCAGAGCGCCCCCCTGGAGGAGTCAGAGCATCTGCCCCTGTCCACAGTACATACGGAA
GTCTCCAAAGGGTCCCTGAGGCTAAGTGGCAGGTCCAATCCCATTTAACCAGGTCTAGGT
CTTCTCCCTGCCATGTCCCTTGCCAGGCTCTTCCACTTAGCTAAGTGGGCACACTGCAAG
CTGGGGTGGCACCCCAGCATTCCTGGCTTTCTGGGGTCCAGATAGGCTGGCAAGAGCTGT
TTTTGCATCCATTTGCATCGTGAAGACTGGCATTTTGATACTTCAGCTGTTTGTTCCTGG
GAGAATTCTGAGCACAGATTCCAGAGGTCACAGTAAGCCTTGCAGCTTGAGCTGAAAGAT
GCCAGAGCCGGAGATGTCTGCTGGCAGCAGGCAGGGTTCATTCTGGTGACACAGCAACAG
ATGCCTGGCCTGGGAACCCAGGGATTTCACCTCCACCAGTGAGACCACGGGGCCACTGTG
GGGTGAGGGAAGGAGCGCTTGGAGTCAGAGCTCTAGACCTTGGTCAACTCTTCACCTCTG
TGAGAGATGGTGTGTGGAGGTGCTTCAGAAGTAAAGAATTCTGTGGATGCAAAGCAGTGG
GATTACTGTTAGATCATTAGCGCATCCAGCTGAAGACAATAGATGCAGTAGTCTTGGCTT
ACAGCCCTCTGCAAAAAAAAAAAAAAAAAAAA
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3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_005972 unedited
CTCCCCCCCCCNTAAATAGTGTGNACCGCGGCTCGCATNTNAGGACTCGAGTTTTTTTTTT
TTTTTTTTTTTGCAGAGGGCTGTAAGCCAAGATACTGCATCTATTGTCTTCAGCTGGAT
GCGCTAATGATCTAACAGTAATCCCACTGCTTTGCATCCACAGAATTCTTTACTTCTGAA
GCACCTCCACACACCATCTCTCACAGAGGTGAAGAGTTGACCAAGGTCTAGAGCTCTGAC
TCCAAGCGCTCCTTCCCTCACCCCACAGTGGCCCCGTGGTCTCACTGGTGGAGGTGAAAT
CCCTGGGTTCCCAGGCCAGGCATCTGTTGCTGTGTCACCAGAATGAACCCTGCCTGCTGC
CAGCAGACATCTCCGGCTCTGGCATCTTTCAGCTCAAGCTGCAAGGCTTACTGTGACCTC
TGGAATCTGTGCTCAGAATTCTCCCAGGAACAAACAGCTGAAGTATCAAAATGCCAGTCT
TCACGATGCAAATGGATGCAAAAACAGCTCTTGCCAGCCTATCTGGACCCCAGAAAGCCA
GGAATGCTGGGGTGCCACCCCAGCTTGCAGTGTGCCCACTTAGCTAAGTGGAAGAGCCTG
GCTAGGGACATGGCAGGGAGAAGACTTANACCTGGTTAAAAGGGATTTGAACCTGGCACT
TAACCTCAGGGACCTTTTGNAGACTTTCGTATGTACTGGGGGACAGGGGCAAATGCTCTG
ACTTCTCCAGGGGGGGCCTTTGCTTGCCAAGTCAGCAACCAGGCCCTTGACCTCCTTCTT
GAAATTGGGGTTGAAAAAACCATANATGAAGGGGTTTGCCCCCGTTGGGAGCCTCTGGAA
ACAAAGGGCCCACTAGCAGAAGAGGTTCCCAGGGCAAAGGGGGATGGCCC
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Restriction Sites: Please inquire

ACCN: NM_005972

Insert Size:	4700 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_005972.3, NP_005963.2
RefSeq Size:	1956 bp
RefSeq ORF:	1128 bp
Locus ID:	5540
UniProt ID:	P50391
Cytogenetics:	10q11.22
Domains:	7tm_1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction

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]

Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.