

Product datasheet for SC119601

Neuropeptide Y (NPY) (NM_000905) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Neuropeptide Y (NPY) (NM_000905) Human Untagged Clone
Tag: Tag Free
Symbol: Neuropeptide Y
Synonyms: PYY4
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_000905 edited
 ATGCTAGGTAACAAGCGACTGGGGCTGTCCGGACTGACCCTCGCCCTGCTCCCTGCTCGTG
 TGCCCTGGGTGCGCTGGCCGAGGCGTACCCCTCCAAGCCGGACAACCCGGGCGAGGACGCA
 CCAGCGGAGGACATGGCCAGATACTACTCGGCGCTGCGACACTACATCAACCTCATCACC
 AGGCAGAGATATGGAAAACGATCCAGCCCAGAGACACTGATTTTCAGACCTCTTGATGAGA
 GAAAGCACAGAAAATGTTCCAGAACTCGGCTTGAAGACCCTGCAATGTGGTGA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_000905 unedited
 GCACGAGGCTGGCTCTCACCCCTCGGAGACGCTCGCCCGACAGCATAGTACTTGCCGCC
 AGCCACGCCCGCGGCCAGCCACCATGCTAGGTAACAAGCGACTGGGGCTGTCCGGACTG
 ACCCTCGCCCTGTCCCTGCTGCTGCTGCTGGGTGCGCTGGCCGAGGCGTACCCCTCCAAG
 CCGGACAACCCGGGCGAGGACGCACCAGCGGAGGACATGGCCAGATACTACTCGGCGCTG
 CGACACTACATCAACCTCATCACCAGGCAGAGATATGGAAAACGATCCAGCCCAGAGACA
 CTGATTTTCAGACCTCTTGATGAGAGAAAAGCACAGAAAATGTTCCAGAACTCGGCTTGA
 GACCCTGCAATGTGGTATGGGAAATGAGACTTGCTCTCTGGCCTTTTCCTATTTTCAGC
 CCATATTTTCATCGTGTAAAACGAGAATCCACCCATCCTACCAATGCATGCAGCCACTGTG
 CTGAATTTGCAATGTTTTCTTTGTCATATTGTATATNATGTGTGTTTAAATAAAGTA
 TCATGCATTCNAACTCGACTCTAGATTGC
 GGCCGCGGTGATAGCTGTTTCTGAACGATCCCCGGGTGGCATCCCTGTGACCCCTCCC
 A



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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000905 unedited NNNTAGCTTGNACCGCGCCGCAATTCTAGATCGAGTTTGAATGCATGATACTTTATTTAAACACACATATATAACAATGATGACAAAG GAAAACATTGCAGAATTCAGCACAGTGGCTGCATGCATTGGTAGGATGGGTGGATTCTCG TTTTACACGATGAAATATGGGCTGAAAATAGGAAAAGGCCAGAGCAAGTCTCATTTC CATCACCATTCAGGGTCTTCAAGCCGAGTTCTGGGAACATTTCTGTGCTTTCTCTC ATCAAGAGGTCTGAAATCAGTGTCTCTGGGCTGGATCGTTTTCCATATCTCTGCCTGGTG ATGAGGTTGATGTAGTGTCCAGCGCCGAGTAGTATCTGGCCATGTCTCCGCTGGTGCG TCCTCGCCCGGGTTGTCCGGCTTGAGGGGTACGCCTCGGCCAGCGCACCCAGGCACACG AGCAGGGACAGGGCGAGGGTCAATCCGGACAGCCCCAGTCGCTTGTACCTAACATGGTG GCTGGCGCGGGCGTGGCTGGGCGCAAGTACTATGCTGTGGGCGAGCGTCTCCGAGG GGTGAGAGCCAGCCTCGTGCCGAATTCGCGGCCGCCCTATAGTGAGTCGTATTACAAAAT TCTGACGGTTCACTAAACGAGCTCTGCTTATATAGACCTCCACCGTACACGCCTACCGC CCATTTGCGTCAACGGGGCGGGTTATTACGACATTTTGGGAAGTCCCGTTGATTTTGGT GCCAAAACAACCTCCATTGACGTCATGGGGTGGAGACTTGAAAATCCCGTGAGTCAAC CGCTACCAGCCCATGGTTACTGCCAAACCGCTACCATGGTATAGCGAGACTAATCCT ANATGTCTG
Restriction Sites:	NotI-NotI
ACCN:	NM_000905
Insert Size:	2100 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	A TrueClone.
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_000905.2 , NP_000896.1
RefSeq Size:	551 bp
RefSeq ORF:	294 bp
Locus ID:	4852
UniProt ID:	P01303
Cytogenetics:	7p15.3
Domains:	hormone3

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

Protein Pathways: Adipocytokine signaling pathway

Gene Summary: This gene encodes a neuropeptide that is widely expressed in the central nervous system and influences many physiological processes, including cortical excitability, stress response, food intake, circadian rhythms, and cardiovascular function. The neuropeptide functions through G protein-coupled receptors to inhibit adenylyl cyclase, activate mitogen-activated protein kinase (MAPK), regulate intracellular calcium levels, and activate potassium channels. A polymorphism in this gene resulting in a change of leucine 7 to proline in the signal peptide is associated with elevated cholesterol levels, higher alcohol consumption, and may be a risk factor for various metabolic and cardiovascular diseases. The protein also exhibits antimicrobial activity against bacteria and fungi. [provided by RefSeq, Oct 2014]