

## Product datasheet for MR219705

### Npy4r (NM\_008919) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Npy4r (NM_008919) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Npy4r
Synonyms:	NYYR-D; Ppyr1; Y4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR219705 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAATACCTCTCATTCTTGGCCCTCTCTCCAGGATCCCTACAGGGTAAGAATGGGACCAATCCAT  
TGGATCCCCCTATAATTTCTCTGATGGCTGCCAGGATTCGGCAGAGCTGTTGGCCTTCATCATACCAC  
CTACAGCATTGAGACCATCTGGGGTCTGGGAACTCTGCTTGATATTTGTGACCACAAGACAAAAG  
GAAAAGTCCAATGTGACCAACCTACTCATTGCCAACCTGGCCTTCTGACTTCCTCATGTGCCTCATCT  
GCCAACCTCACAGTCACCTACCCATCATGGATTACTGGATCTTTGGTGAAGTCTTTGCAAGATGTT  
AACTTTCATCCAGTGTATGTCAGTGACAGTCTCCATCCTCTCACTGGTCCTTGTGGCCCTGGAGAGGCAC  
CAGCTCATTATCAATCCAACAGGCTGGAACCCAGTATTTCCAGGCCTACCTGGGGATTGTGGTCATCT  
GGTTCGCTCTTGTTCCTTTCCCTTGGCCCTTCTGGCCAACAGCACCCCTGAATGACCTCTTCCACTACAA  
CCACTCTAAGGTTGTAGAGTTTCTGGAAGACAAGGTCTGCTTGTGTCCTGGTCTTCAGATCACCAC  
CGTCTCATCTATACCACTTTTCTGCTGCTTTTCCAGTACTGCATCCCTTAGCCTTCATCCTGGTCTGCT  
ACATACGCATCTACCAGCGCCTGCAGAGGCAGAAGCATGTGTTCCATGCGCACGCTTGCAGCTCACGAGC  
GGGACAGATGAAGCGGATCAACAGCATGCTCATGACAATGGTACTGCCTTTGCAGTTCTCTGGCTACCC  
CTGCATGTGTTCAACACTCTGGAGGACTGGTACCAGGAAGCCATCCCTGCTTGGCCATGGCAACCTCATCT  
TCTTGATGTGCCACCTGTTGGCCATGGCTTCCACCTGTGTCAACCTTTTCATCTATGGCTTCTCAACAT  
CAACTTCAAGAAGGATATCAAGGCTCTGGTCTGACCTGCCATTGCAGGTCACCTCGAGGGGAGTCTGAG  
CATCTGCCCTGTCCACTGTTCCACGACCTATCCAAGGATCGATGAGGATGGGTAGCAAGTCTAACT  
TCATA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR219705 protein sequence  
Red=Cloning site Green=Tags(s)

MNTSHFLAPLFPGLQKNGTNPLDSPYNFSDGCQDSAELLAFIITTYSIETILGVLGNLCLIFVTTRQK  
 EKSNTVNLIIANLAFSDFLMCLICQPLTVTYTIMDYWIFGEVLCKMLTFIQMSVTVSILSLVLVALERH  
 QLIINPTGWKPSIFQAYLGIVVIWFVSCFLSLPFLANSTLNDLFHYNHSHKVVFELEDKVVCFVSWSSDHH  
 RLIIYTTFLLLQYCIPLAFILVCYIRIYQRLQRQKHVFAHACSSRAGQMKRINSMLMTMTAFVWLWP  
 LHVFNLTLEDWYQEAIPACHGNLIFLMCHLLAMASTCVNPFYGFNLNINFKKDIKALVLTCHCRSPRGESE  
 HLPLSTVHTDLKSGSMRMGSKSNFI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_008919

**ORF Size:** 1128 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\\_008919.4](#), [NP\\_032945.3](#)

**RefSeq Size:** 1903 bp

**RefSeq ORF:** 1128 bp

**Locus ID:** 19065

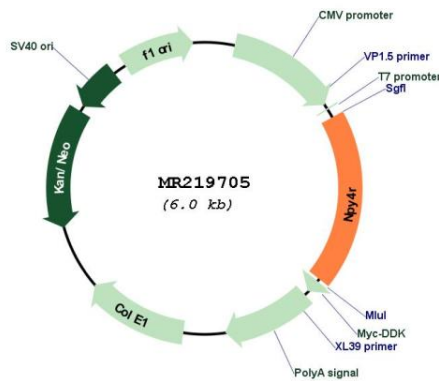
**UniProt ID:** [Q61041](#)

**Cytogenetics:** 14 20.8 cM

**MW:** 42.6 kDa

**Gene Summary:** Receptor for neuropeptide Y and peptide YY. The rank order of affinity of this receptor for pancreatic polypeptides is PP >> PYY >= NPY.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR219705