

Product datasheet for **RN214992**

Npy (NM_012614) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Npy (NM_012614) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Npy
Synonyms:	NPY02; RATNPY; RATNPY02
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN214992 representing NM_012614 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGCTAGGTAACAAACGAATGGGGCTGTGTGGACTGACCCTCGCTCTATCCCTGCTCGTGTGTTTGG
GCATTCTGGCTGAGGGGTACCCCTCCAAGCCGGACAATCCGGGCGAGGACGCGCCAGCAGAGGACATGGC
CAGATACTACTCCGCTCTGCGACACTACATCAATCTCATACCAGACAGAGATATGGCAAGAGATCCAGC
CCTGAGACACTGATTTAGATCTCTTAATGAGAGAAAGCACAGAAAATGCCCCAGAACAAGGCTTGAAG
ACCCTTCATGTGG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_012614
Insert Size:	297 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).

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).



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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_012614.2](#), [NP_036746.1](#)

RefSeq Size: 567 bp

RefSeq ORF: 297 bp

Locus ID: 24604

UniProt ID: [P07808](#)

Cytogenetics: 4q24

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. Studies in the rat model of depression (Flinders Sensitive Line) show that this gene is downregulated in the hippocampus and the prefrontal cortex compared to the control (Flinders Resistant Line). Alternatively spliced transcript variants of this gene have been described, but the function of all the variants is not known. [provided by RefSeq, Jul 2012]