

Product datasheet for **MR226370**

Npy (NM_023456) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Npy (NM_023456) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Npy
Synonyms: 0710005A05Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR226370 representing NM_023456
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

**ATGCTAGGTAACAAGCGAATGGGGCTGTGTGGACTGACCCTCGCTCTATCTCTGCTCGTGTGTTGGGCA
TTCTGGCTGAGGGGTACCCCTCCAAGCCGGACAATCCGGGCGAGGACGCGCCAGCAGAGGACATGGCCAG
ATACTACTCCGCTCTGCGACACTACATCAATCTCATCACCAGACAGAGATATGGCAAGAGATCCAGCCCT
GAGACACTGATTCAGACCTCTTAATGAAGGAAAGCACAGAAAACGCCCCAGAACAAGGCTTGAAGACC
CTCCATGTGG**

**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence: >MR226370 representing NM_023456
Red=Cloning site Green=Tags(s)
MLGNKRMGLCGLTLALSLLVCLGILAEGYPSKPDNPGEDAPAEDMARYYSALRHYINLITRQRYGKRSSP
ETLISDLLMKESTENAPRTRLEDPSMW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9008_c01.zip

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM_023456

ORF Size: 291 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_023456.3](#)

RefSeq Size: 561 bp

RefSeq ORF: 294 bp

Locus ID: 109648

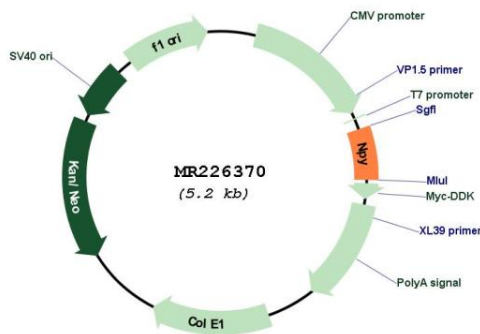
UniProt ID: [P57774](#)

Cytogenetics: 6 24.04 cM

MW: 11.3 kDa

Gene Summary: This gene encodes a neuropeptide that plays a pivotal role in many physiological functions such as food intake, energy homeostasis, circadian rhythm, and cognition. The encoded protein precursor undergoes proteolytic processing to generate the biologically active peptide. Mice lacking the encoded protein exhibit mild seizures occasionally and become hyperphagic following food deprivation. A deficiency of the encoded protein partially prevents mice lacking leptin from becoming obese. [provided by RefSeq, Oct 2015]

Product images:



Circular map for MR226370