

## Product datasheet for **MC212210**

### **Npy (NM\_023456) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Npy (NM_023456) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Npy
Synonyms:	0710005A05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_023456, the custom clone sequence may differ by one or more nucleotides

```
ATGCTAGGTAACAAGCGAATGGGGCTGTGTGGACTGACCCTCGCTCTATCTCTGCTCGTGTGTTGGGCA
TTCTGGCTGAGGGGTACCCCTCCAAGCCGGACAATCCGGGCGAGGACGCGCCAGCAGAGGACATGGCCAG
ATACTACTCCGCTCTGCGACTACATCAATCTCATCACCAGACAGAGATATGGCAAGAGATCCAGCCCT
GAGACTGATTCAGACCTCTTAATGAAGGAAAGCACAGAAAACGCCCCAGAACAAAGGCTTGAAGACC
CTTCCATGTGGTGA
```

Restriction Sites:	Sgfl-MluI
ACCN:	NM_023456
Insert Size:	294 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:** [BC043012](#), [AAH43012](#)

**RefSeq Size:** 561 bp

**RefSeq ORF:** 294 bp

**Locus ID:** 109648

**UniProt ID:** [P57774](#)

**Cytogenetics:** 6 24.04 cM

**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]