

Product datasheet for **MG220607**

Pnoc (NM_010932) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pnoc (NM_010932) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Pnoc
Synonyms: N/O; N/OFQ; N23; Np; Npnc1; OFQ; OFQ/N; p
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG220607 representing NM_010932
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAATCCTCTTTGTGACGTTCTGCTGCTCAGCCTGCTCTCCAGCGTGTTCAGCAGCTGTCCAGGG
 ACTGCCTCACCTGCCAGGAGAAGCTCCACCCAGCTCCAGACAGCTTCACTTAAAGACGTGCATCCTCCA
 GTGTGAAGAGAAGGTCTCCCCGCCCTCTGGACTGTATGCACCAAAGTCATGGCCAGTGGCTCCGGG
 CAGCTCAGCCCTGCTGACCCAGAGCTTGTGTCAGCTGCTTTTACCAGCCAAAGGCCTCGGAGATGCAGC
 ACCTGAAGAGAATGCCGCGTGTCCGGAGCTTGGTCAAGTGCAGATGCAGAGCCTGGCGCAGATGCTGA
 GCCTGGCGCAGATGCTGAGCCTGGCGCAGATGACGCTGAGGAGGTGGAGCAGAAGCAGCTGCAGAAAAGG
 TTTGGGGGCTTACCAGGGCCCGGAAATCAGCCCGGAAGTTGGCCAACCAGAAGCGGTTCAAGTGAAGTTA
 TGAGGCAGTACCTGGTCTGAGCATGCAGTCAAGTCAACGCCGGCGCACCTGCACCAGAATGGTAAATGT
 G

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG220607 representing NM_010932
 Red=Cloning site Green=Tags(s)

MKILFCDVLLL SLLSSVFSSCP RDCLTCQEKLHPAPDSFNLKT CILQCEEKVFPRPLWTVCTKVMASGSG
 QLSPADPELVSAALYQPKASEMQHLKRMPVRVSLVQVRDAEPGADAEPGADAEPGADAEVEVEQKQLQKR
 FGGFTGARKSARKLANQKRFSEFMRQYLVL SMQSSQRRRTLHQNGNV

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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_010932.2](#), [NP_035062.1](#)

RefSeq Size: 1894 bp

RefSeq ORF: 564 bp

Locus ID: 18155

UniProt ID: [Q64387](#)

Cytogenetics: 14 D1

Gene Summary: This gene encodes the precursor for neuropeptides that have been implicated in a wide range of physiological roles such as transmission and sensitivity to pain, learning, memory, anxiety and depression, in the central nervous system. The encoded protein is a precursor that is proteolytically processed to generate multiple biologically active peptides including nociceptin and nocistatin which have opposite functions in pain transmission. Mice lacking the encoded protein display increased anxiety, elevated basal pain threshold and impaired adaptation to repeated stress. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2015]