

Product datasheet for **MR220607**

Pnoc (NM_010932) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pnoc (NM_010932) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pnoc
Synonyms: N/O; N/OFQ; N23; Np; Npnc1; OFQ; OFQ/N; p
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR220607 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAATCCTCTTTTGTGACGTTCTGCTGCTCAGCCTGCTCTCCAGCGTGTTCCAGCAGCTGTCCCAGGG
ACTGCCTCACCTGCCAGGAGAAGCTCCACCCAGCTCCAGACAGCTTCACTTAAAGACGTGCATCCTCCA
GTGTGAAGAGAAGGTCTTCCCCGCCCTCTCTGGACTGTATGCACCAAAGTCATGGCCAGTGGCTCCGGG
CAGCTCAGCCCTGCTGACCCAGAGCTTGTGTGCTGCTCTTTACCAGCCAAAGGCCTCGGAGATGCAGC
ACCTGAAGAGAATGCCGCGTGTCCGGAGCTTGGTCAAGTGCAGATGCAGAGCCTGGCGCAGATGCTGA
GCCTGGCGCAGATGCTGAGCCTGGCGCAGATGACGCTGAGGAGGTGGAGCAGAAGCAGCTGCAGAAAAGG
TTTGGGGGCTTACCGGGGCCGGAAATCAGCCCGGAAGTTGGCCAACCAGAAGCGGTTTCAGTGAGTTTA
TGAGGCAGTACCTGGTCTGAGCATGCAGTCAAGTCAACGCCGGCGCACCTGCACCAGAATGGTAAATGT
G

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR220607 protein sequence
Red=Cloning site Green=Tags(s)

MKILFCDVLLL SLLSSVFSSCPDCLTCQEKLHPAPDSFNLKTCILQCEEKVFPRPLWTVCTKVMASGSG
QLSPADPELVSAALYQPKASEMQHLKRMPVRVSLVQVRDAEPGADAEPGADAEPGADAEVEEQQLQKR
FGGFTGARKSARKLANQKRFSEFMRQYLVL.SMQSSQRRRTLHQNGNV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010932

ORF Size: 564 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_010932.2](#), [NP_035062.1](#)

RefSeq Size: 2157 bp

RefSeq ORF: 564 bp

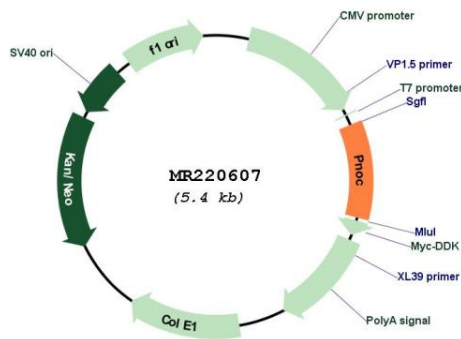
Locus ID: 18155

UniProt ID: [Q64387](#)

Cytogenetics: 14 D1
MW: 20.9 kDa

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]

Product images:



Circular map for MR220607