

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 >MG220607 representing NM_010932

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

G

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG220607 representing NM_010932

Red=Cloning site Green=Tags(s)

MKILFCDVLLLSLLSSVFSSCPRDCLTCQEKLHPAPDSFNLKTCILQCEEKVFPRPLWTVCTKVMASGSG QLSPADPELVSAALYQPKASEMQHLKRMPRVRSLVQVRDAEPGADAEPGADAEPGADAEEVEQKQLQKR

FGGFTGARKSARKLANQKRFSEFMRQYLVLSMQSSQRRRTLHQNGNV

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



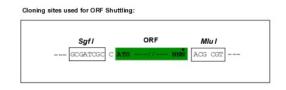
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

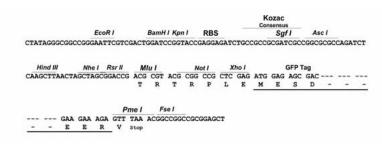
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

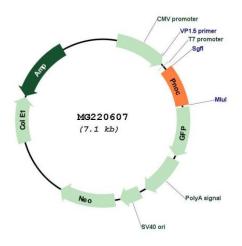


Cloning Scheme:





Plasmid Map:



ACCN: NM_010932

ORF Size: 561 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: <u>NM 010932.2, NP 035062.1</u>

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]