

## Product datasheet for MC226334

### Pnoc (NM\_001205075) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pnoc (NM_001205075) Mouse Untagged Clone
Tag:	Tag Free
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)
Fully Sequenced ORF:	>MC226334 representing NM_001205075 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**C

ATGAAATCCTCTTTGTGACGTTCTGCTGCTCAGCCTGCTCTCCAGCGTGTTGAGCAGCTGTCCAGGG  
 ACTGCCTCACCTGCCAGGAGAAGCTCCACCCAGCTCCAGACAGCTTCACTTAAAGACGTGCATCCTCCA  
 GTGTGAAGAGAAGGTCTTCCCCGCCCTCTCTGGACTGTATGCACCAAAGTCATGGCCAGTGGCTCCGGG  
 CAGCTCAGCCCTGCTGACCCAGAGCTTGTGTCAGCTGCTCTTACCAGCCAAAGGCCTCGGAGATGCAGC  
 ACCTGAAGAGAATGCCGCGTGTCCGGAGCTTGGTGCAAGTGCGAGATGCAGAGCCTGGCGCAGATGCTGA  
 GCCTGGCGCAGATGCTGAGCCTGGCGCAGATGACGCTGAGGAGGTGGAGCAGAAGCAGCTGCAGAAAAGG  
 TTTGGGGGCTTACCGGGGCCCGGAAATCAGCCCGGAAGTTGGCCAACCAGAAGCGGTTCACTGAGTTTA  
 TGAGGCAGTACCTGGTCCTGAGCATGCAGTCAAGTCAACGCCGGCGCACCTGCACCAGAATGGCATCCA  
 GGTGATCCCCCGTACAGCATGTGTCCACTCCAAGACCTGCAGGCCGGGAGTCAGGATTCCTCCCTCCCCG  
 AGGCAC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001205075
Insert Size:	639 bp


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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_001205075.1, NP_001192004.1</u>
<b>RefSeq Size:</b>	2101 bp
<b>RefSeq ORF:</b>	639 bp
<b>Locus ID:</b>	18155
<b>UniProt ID:</b>	<u>Q64387</u>
<b>Cytogenetics:</b>	14 D1
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate donor splice site at the penultimate exon compared to variant 1. This results in a frameshift, and a longer isoform (2, also known as N27K) with a distinct C-terminus, compared to isoform 1.</p>