

## Product datasheet for **SC116235**

### Nociceptin (PNO) (NM\_006228) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nociceptin (PNO) (NM_006228) Human Untagged Clone
Tag:	Tag Free
Symbol:	Nociceptin
Synonyms:	N/OFQ; NOP; OFQ; ppN/OFQ; PPNO
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116235 sequence for NM_006228 edited (data generated by NextGen Sequencing)

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ATGAAAGTCCTGCTTTGTGACCTGCTGCTCAGTCTTCTCCAGTGTGTTCCAGCAGT
TGCAGAGGGACTGTCTCACATGCCAGGAGAAGCTCCACCCAGCCCTGGACAGCTTCGAC
CTGGAGGTGTGCATCCTCGAGTGTGAAGAGAAGGTCTTCCCCAGCCCCCTGGACTCCA
TGCACCAAGGTCATGGCCAGGAGCTCTTGGCAGCTCAGCCCTGCCGCCAGAGCATGTG
GCGGCTGCTCTACCAGCCGAGAGCTTCGGAGATGCAGCATCTGCGGCGAATGCCCGA
GTCCGGAGCTTGTCCAGGAGCAGGAAGAGCCCGAGCCTGGCATGGAGGAGGCTGGTGAG
ATGGAGCAGAAGCAGCTGCAGAAGAGATTTGGGGGCTTACCGGGGCCCGAAGTCGGCC
AGGAAGTTGGCCAATCAGAAGCGGTTCACTGAGTTTATGAGGCAATACTTGGTCCTGAGC
ATGCAGTCCAGCCAGCGCGCCGACCCTGCACCAGAATGTAATGTGTAG
```

Clone variation with respect to NM\_006228.3



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_006228 unedited</p> <pre> NGGGCACCATTTGTATACGACTCTATAGGCGGCCCGGAATTCGCACGAGGCCTCGTGC CGAATTCGGCAGCAGGATCGGAGGGAGCCGGGACTGACAGCTCTCAGCACCTGCTTCT GCTCCTGCACCATGAAAGTCCTGCTTTGTGACCTGCTGCTGCTCAGTCTTTCTCCAGTG TGTTTCAGCAGTTGTCAGAGGGACTGTCTCACATGCCAGGAGAAGTCCACCCAGCCCTGG ACAGCTTCGACCTGGAGGTGTGCATCCTCGAGTGTGAAGAGAAGTCTTCCCCAGCCCCC TCTGGACTCCATGCACCAAGGTATGGCCAGGAGCTCTTGGCAGCTCAGCCCTGCCGCC CAGAGCATGTGGCGGCTGCTCTCTACCAGCCGAGAGCTTCGGAGATGCAGCATCTGCGGC GAATGCCCCGAGTCCGGAGCTTGTTCAGGAGCAGGAAGAGCCCGAGCCTGGCATGGAGG AGGCTGGTGAGATGGAGCAGAAGCAGCTGCAGAAGAGATTTGGGGGCTTACCAGGGGCC GGAAGTCGGCCAGGAAGTTGGCCAATCAGAAGCGGTTCAAGTGTATGAGGCAATACT TGGTCTGAGCATGCAGTCCAGCCAGCGCCGGCGCACCTGCACCAGAATGGTAATGTGT AGCCGGAAGGGGCGCTCCTCCAGCTGTACCGGCACTGCAACCCATGAGCGTTCAGGTG ATCCCCAACAGCATGTGCTCAGCCCCAGACCTGCCGCTGGGAATCAGGATTCTTTTTT TCCCCAAGCCACTGAGCGCTGCAGATTCCGCCAGGCCTGTTTGCCTCCANAACCTTCC CTATTGATTGTTTCTCCCACCCCTTGCATGTTTACCACAAACCTGTTGCTACATAT </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_006228 unedited</p> <pre> GCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTAAACCATTTGCTCAGTAGAAGTTTA ATGGAGAAATCGTTGTTTAAAACAATCAGTCAAAAAGAACAGCTCTTTTACAAACAAGTT ATGGCAGTGGCAAGTCAAAACCCAGGTTCAATTTCTATTCTTTACCTGCCCTAGA AGGGGCAAGAGGGGGTGAAGCAGGAGAGATGGGGCTATTGAAATGGTAGTAGAGGAATT ACAAAAATACACTCTGATGTAGCAACAGGTTGTGGTGAACATGCCAGGGGGCTGGGGA GGAACAATCAGACGGGAAGGTTCTGGAGGCAAAAGGCTGCGGGATCTGCAGGCGCTC AGTGCCTTGGGGAAGAAGGAATCCTGATCCCAGCGGCGAGGTTGGGGCTGAGCACATG CTGTTTGGGGGATCACCTGGACGCTCATGGGTTGCAGTGGCCGGTACAGCTGGGAGGAGC GCCCTTCCGGCTACACATTACCATTCTGGTGCAGGTTGCCCGGCGCTGGCTGGACTGC ATGCTCAGGACCAAGTATTGCCTCATAAACTCACTGAACCGCTTCTGATTGGCCAACCTC CTGGCCGACTTCCGGGCCCGGTGAAGCCCCAAATCTTCTGTCAGTGTCTTCTGCTCC ATCTCACCAGCTTCTCCATGCCAGCTCGGGCTCTTCTGCTCCTGGAAAACAGCTCNG ACTCGGGGCATCTCGCGCAGATGCTGCATCTCGAAACTCTCGGCTGTAAAAGACAACCG CCACATGCTCTTGGCGGCAAGGCTGACCTCCAAGACTCTTGGCCTGACCTTGGGCCAT GAGCCAAAGGGGCTGGGAAAACCTCTTCCACTTGAGATGCCACCCCAAGTCAAACCTG CCACAGCTGGGGGACTTCTCCGGCCGTAACACGCCCTTTGACACGGNTGAACCTGGAA AAAAACGTCCCACCCGTTCAACCGGCTTCTTGGGCGACG </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006228
<b>Insert Size:</b>	1110 bp
<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>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).

**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\\_006228.2](#), [NP\\_006219.1](#)

**RefSeq Size:** 1198 bp

**RefSeq ORF:** 531 bp

**Locus ID:** 5368

**UniProt ID:** [Q13519](#)

**Cytogenetics:** 8p21.1

**Domains:** Opioids\_neuropep

**Protein Families:** Secreted Protein

**Gene Summary:** This gene encodes a preproprotein that is proteolytically processed to generate multiple protein products. These products include nociceptin, nocistatin, and orphanin FQ2 (OFQ2). Nociceptin, also known as orphanin FQ, is a 17-amino acid neuropeptide that binds to the nociceptin receptor to induce increased pain sensitivity, and may additionally regulate body temperature, learning and memory, and hunger. Another product of the encoded preproprotein, nocistatin, may inhibit the effects of nociceptin. [provided by RefSeq, Jul 2015]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.