

Product datasheet for SC333581

Nociceptin (PNOC) (NM_001284244) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nociceptin (PNOC) (NM_001284244) Human Untagged Clone
Tag:	Tag Free
Symbol:	PNOC
Synonyms:	N/OFQ; NOP; OFQ; ppN/OFQ; PPNOC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC333581 representing NM_001284244. Blue=Insert sequence Red=Cloning site Green=Tag(s)

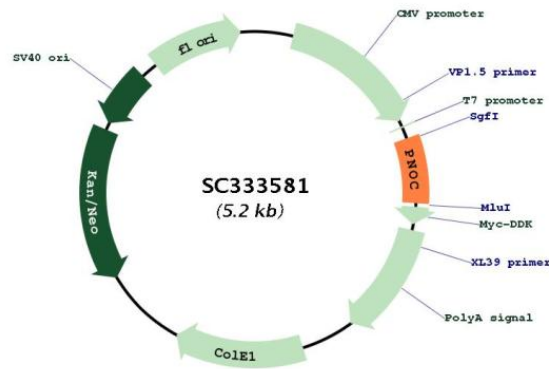
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GTCGTTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCAGGAGCTCTTGGCAGCTCAGCCCTGCCGCCCAGAGCATGTGGCGGCTGCTCTCTACCAGCCG
AGAGCTTCGGAGATGCAGCATCTCGGCGAATGCCCGAGTCCGGAGCTTGTCCAGGAGCAGGAAGAG
CCCGAGCCTGGCATGGAGGAGGCTGGTGGAGATGGAGCAGAAGCAGCTGCAGAAGAGATTTGGGGCTTC
ACCGGGGCCCGAAGTCGGCCAGGAAGTTGGCCAATCAGAAGCGGTTAGTGAGTTTATGAGGCAATAC
TTGGTCTGAGCATGCAGTCCAGCCAGCGCCGGCGCACCTGCACCAGAATGGTAATGTGTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-Mlul



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Plasmid Map:



ACCN: NM_001284244

Insert Size: 339 bp

OTI Disclaimer: 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).

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_001284244.1](#)

RefSeq Size: 1022 bp

RefSeq ORF: 339 bp

Locus ID: 5368

UniProt ID: [Q13519](#)

Cytogenetics: 8p21.1

Protein Families: Secreted Protein

MW: 13 kDa

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 (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start site compared to variant 1. The encoded isoform (2) lacks a signal peptide sequence and has a shorter N-terminus compared to 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.