

Product datasheet for RG206443

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

Nociceptin (PNOC) (NM_006228) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Nociceptin (PNOC) (NM_006228) Human Tagged ORF Clone

Tag: TurboGFP Symbol: Nociceptin

Synonyms: N/OFQ; NOP; OFQ; ppN/OFQ; PPNOC

Mammalian Cell Neomycin

Selection:

Vector:

pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG206443 representing NM_006228

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

GCCAGCGCCGCCCCCCCCACAGAATGGTAATGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG206443 representing NM_006228

Red=Cloning site Green=Tags(s)

MKVLLCDLLLLSLFSSVFSSCQRDCLTCQEKLHPALDSFDLEVCILECEEKVFPSPLWTPCTKVMARSSW QLSPAAPEHVAAALYQPRASEMQHLRRMPRVRSLFQEQEEPEPGMEEAGEMEQKQLQKRFGGFTGARKSA

RKLANQKRFSEFMRQYLVLSMQSSQRRRTLHQNGNV

TRTRPLE - GFP Tag - V

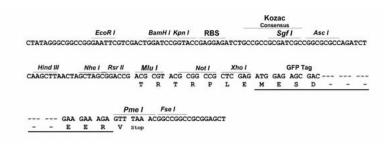
Restriction Sites: Sgfl-Mlul





Cloning Scheme:





ACCN: NM_006228

ORF Size: 528 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

This clone was engineered to express the complete ORF with an expression tag. Expression **OTI Annotation:**

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).

1. Centrifuge at 5,000xg for 5min. **Reconstitution Method:**

Q13519

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.

NM 006228.5 RefSeq:

RefSeq Size: 1198 bp RefSeq ORF: 531 bp Locus ID: 5368 **UniProt ID:**



Cytogenetics: 8p21.1

Domains: Opiods_neuropep
Protein Families: Secreted Protein

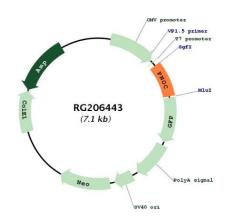
Gene Summary: This gene encodes a preproprotein that is proteolytically processed to generate multiple

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]

Product images:



Circular map for RG206443