

Product datasheet for **RR200791**

Pnoc (NM_013007) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pnoc (NM_013007) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pnoc
Synonyms: N23K; Npnc1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR200791 representing NM_013007
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAATCCTGTTTTGTGATGTCCTGCTGCTCAGCCTGCTCTCCAGCGTGTTCAGCAGCTGTCCCAGG
ACTGCCTCACCTGCCAGGAGAGGCTCCACCCGGCTCCGGGCGCTTCAACCTGAAGCTGTGCATCCTCCA
GTGTGAAGAGAAGGTCTTCCCCGCCCTCTCTGGACTCTTGCACCAAAGCCATGGCCAGTGACTCTGAG
CAGCTCAGCCCTGCTGATCCAGAGCTCAGTCCGCTGCTCTTACCAGTCGAAAGCCTCGGAGATGCAGC
ACCTGAAGAGAATGCCCGGTGTCAGGAGTGTGGTGAAGCCCGAGACGCAGAGCCTGAGGCAGATGCAGA
GCCTGTGCAGATGAGGCCGATGAGGTGGAGCAGAAGCAGCTGCAGAAAAGGTTTGGGGGCTTCACTGGG
GCCCGAAGTCAGCCCGAAGTTGGCCAACCAGAAGCGGTTTCAAGTGAAGTTATGAGGCAGTACCTGGTCC
TGAGCATGCAGTCAAGCCAACGCCGGCGCACTCTGCACCAGAATGGTAATGTG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR200791 representing NM_013007
Red=Cloning site Green=Tags(s)

MKILFCDVLLL SLLSSVFSSCPEDCLTCQERLHPAPGSFNLKLCILQCEEKVFPRPLWTLCTKAMASDSE
QLSPADPELTS AALYQSKASEMQLKRMPPRVRSVVQARDAEPEADAEPVADEAVEQKQLQKRFGGFTG
ARKSARKLANQKRFSEFMRQYLVL SMQSSQRRRTLHQNGNV

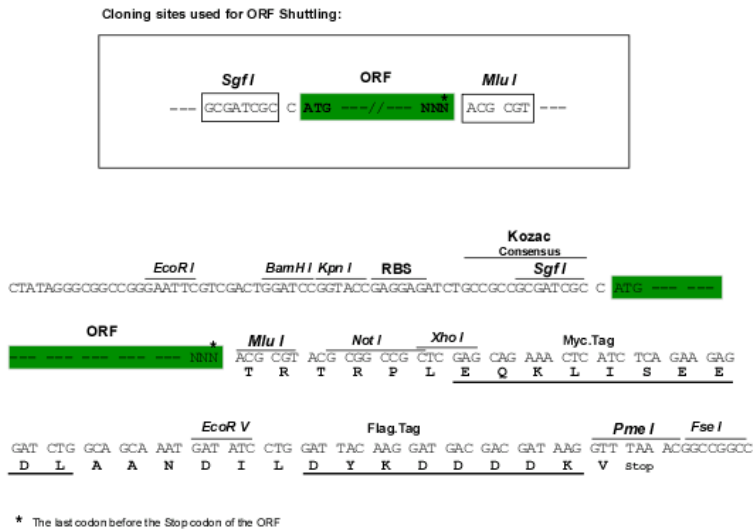
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

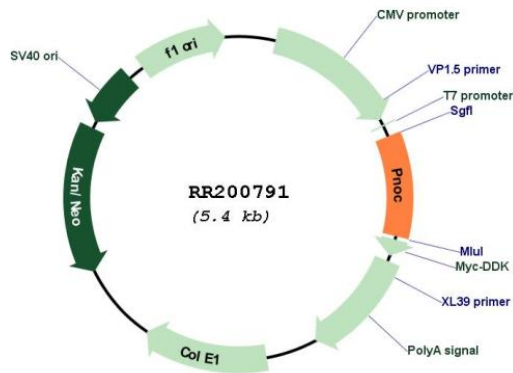


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Cloning Scheme:



Plasmid Map:



ACCN: NM_013007

ORF Size: 543 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:	<ol style="list-style-type: none">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_013007.1</u> , <u>NP_037139.1</u>
RefSeq Size:	974 bp
RefSeq ORF:	546 bp
Locus ID:	25516
UniProt ID:	<u>Q62923</u>
Cytogenetics:	15p11
MW:	20.5 kDa
Gene Summary:	endogenous ligand of the opioid-like orphan receptor; reduces neuronal excitability and induces an increase in inward rectifying K ⁺ conductance in thalamic neurons [RGD, Feb 2006]