

Product datasheet for **RR215779**

Nps (NM_001271113) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nps (NM_001271113) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Nps
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR215779 representing NM_001271113
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATTGGCTCATTAAACTCAACCTCATCTTAGCTGTGCTGCTGCCGTGGTACACGTGATTTGGAGTT
ATCCGGTCCTCTTCCAAGGTGCCTGGGAAGCCTGATTACTTTCTCATTTTGTGAGTACCTGCCAGC
CAGGCTGGAGGGGAGCGACGGGCTAGCTTTTCTAAAGCCAATTTGGAGAAGACGTCGATGAAAAGGTCC
TTTCGAACGGAGTCGGCTCAGGGGTGAAAAAACTTCATTTCGAAGAGCAAAGCAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR215779 representing NM_001271113
Red=Cloning site Green=Tags(s)

MIGSLKLNILALSLSVHVHVIWYSPVLSKVPKPDYFLILLSTCPARLEGSDGLAFLKPILEKTSMKRS
FRNGVSGVKKTSFRRAKQ

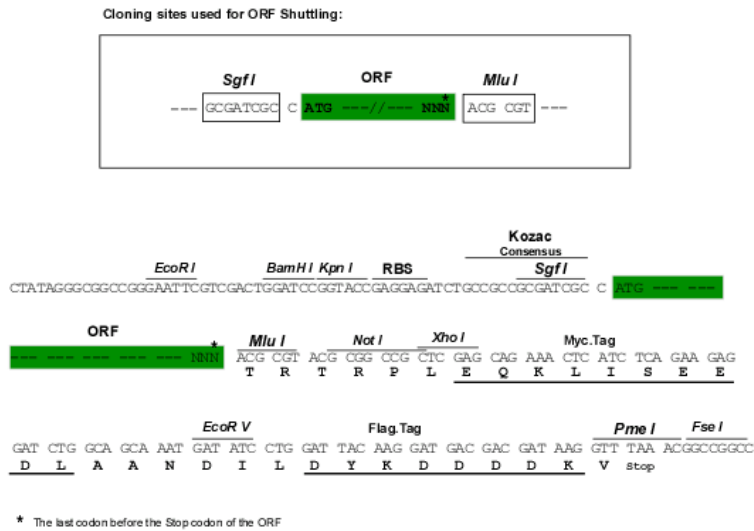
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul

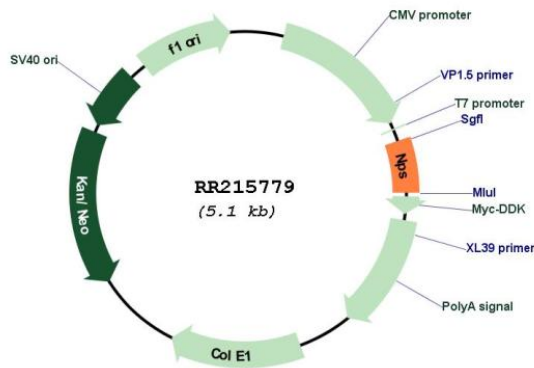


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001271113

ORF Size: 267 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:	NM_001271113.1 , NP_001258042.1
RefSeq Size:	270 bp
RefSeq ORF:	270 bp
Locus ID:	100360071
UniProt ID:	POCOP7
Cytogenetics:	1q41
MW:	9.8 kDa
Gene Summary:	May play an important anorexigenic role. Modulates arousal and anxiety as well as increases locomotor activity. Binds to its receptor NPSR1 with nanomolar affinity to increase intracellular calcium concentrations.[UniProtKB/Swiss-Prot Function]