

Product datasheet for **RC220796**

NPB (NM_148896) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NPB (NM_148896) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NPB
Synonyms: L7; PPL7; PPNPB
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC220796 representing NM_148896
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCGGTCCGCGACACTGGCGGCCGCCCTGGCGCTGTGCCTGCTGCTGGCGCCGCTGGCCTCG
CGTGGTACAAGCCAGCGCGGGGACAGCTCCTACTCGGTGGCCCGCCGCGGGGCTGTGTCCGGCCT
CCGCAGGTCCCCGTACGCGGGCGCTCCAGCCCTACAGAGGGCGGAACCCCGGGCGGGCCGGCGCC
TCCCCGGAGCTGCAACTGCACCCAGGCTGCGGAGCCTCGCTGTGTGCGTCCAGGACGTGCCCCAAACC
TGCAGAGGTGCGAGCGGCTCCCCGACGGCCGGGACCTACCAGTGCAAGGCGAACGTCTTCTGTCCCT
GCGCGCAGCCGACTGCCTCGCCGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC220796 representing NM_148896
Red=Cloning site Green=Tags(s)

MARSATLAAAALALCLLLAPPGLAWYKPAAGHSSYSVGRAAGLLSGLRRSPYARRSQPYRGAEPGGAGA
SPELQLHPRLRSLAVCVQDVAPNLQRCERLPDGRGTQCKANVFLSLRAADCLAA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8012_d08.zip

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_148896

ORF Size: 375 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:

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_148896.5](#)

RefSeq Size: 430 bp

RefSeq ORF: 378 bp

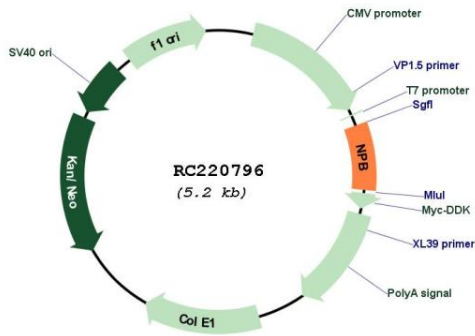
Locus ID: 256933

UniProt ID: [Q8NG41](#)

Cytogenetics: 17q25.3
Protein Families: Secreted Protein, Transmembrane
MW: 12.9 kDa

Gene Summary: This gene encodes a member of the neuropeptide B/W family of proteins and preproprotein that is proteolytically processed to generate multiple protein products. The encoded products include neuropeptide B-23 and a C-terminally extended form, neuropeptide B-29, which are characterized by an N-terminal brominated tryptophan amino acid. Both of the encoded peptides bind with higher affinity to neuropeptide B/W (NPB/W) receptor 1 compared to the related NPB/W receptor 2. These peptides may regulate feeding, pain perception, and stress in rodents. [provided by RefSeq, Jul 2015]

Product images:



Circular map for RC220796