

Product datasheet for **RC206590**

BNP (NPPB) (NM_002521) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BNP (NPPB) (NM_002521) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: BNP
Synonyms: BNP; Iso-ANP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC206590 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCCCCAGACAGCACCTTCCCGGGCGCTCCTGCTCCTGCTCTTCTTGCATCTGGCTTTCCTGGGAG
GTCGTTCCACCCGCTGGGCAGCCCCGGTTCAGCCTCGGACTTGGAAACGTCGGGTTACAGGAGCAGCG
CAACCATTTGCAGGGCAAAGTTCGGAGCTGCAGGTGGAGCAGACATCCCTGGAGCCCTCCAGGAGAGC
CCCCGTCACAGGTGTCTGGAAGTCCCGGGAGGTAGCCACCGAGGGCATCCGTGGGCACCGCAAATGG
TCCTCTACACCCTGCGGGCACCACGAAGCCCCAAGATGGTGAAGGGTCTGGCTGCTTTGGGAGGAAGAT
GGACCGGATCAGCTCCTCCAGTGGCCTGGGCTGCAAAGTCTGAGCGGCAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC206590 protein sequence
Red=Cloning site Green=Tags(s)

MDPQTAPSRALLLLFLHLAFLGGRSHPLGSPGSASDLETSGLQEQRNHLQGKLSLQVEQTSLEPLQES
PRPTGVVKSREVATEGIRGHRKMVLYTLRAPRSPKMQVQSGCFGRKMDRISSSSGLGCKVLRHH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6016_a01.zip

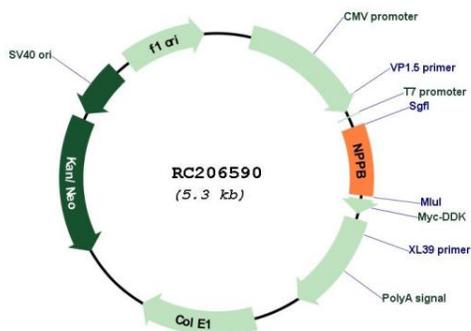
Restriction Sites: SgfI-MluI



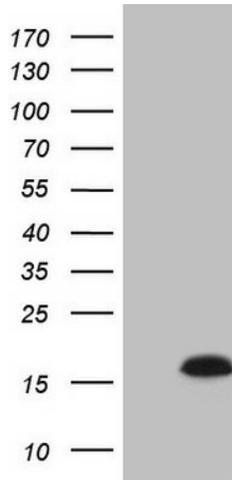
[View online »](#)

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_002521.3
RefSeq Size:	708 bp
RefSeq ORF:	405 bp
Locus ID:	4879
UniProt ID:	P16860
Cytogenetics:	1p36.22
Protein Families:	Druggable Genome, Secreted Protein, Stem cell - Pluripotency
MW:	14.7 kDa
Gene Summary:	This gene is a member of the natriuretic peptide family and encodes a secreted protein which functions as a cardiac hormone. The protein undergoes two cleavage events, one within the cell and a second after secretion into the blood. The protein's biological actions include natriuresis, diuresis, vasorelaxation, inhibition of renin and aldosterone secretion, and a key role in cardiovascular homeostasis. A high concentration of this protein in the bloodstream is indicative of heart failure. The presence of myocardial injury is a significant predictor of mortality in hospitalized coronavirus disease 2019 (COVID-19) patients, and there is evidence of increased levels of natriuretic peptide B in hospitalized non-survivor COVID-19 patients. The protein also acts as an antimicrobial peptide with antibacterial and antifungal activity. Mutations in this gene have been associated with postmenopausal osteoporosis. [provided by RefSeq, Aug 2020]

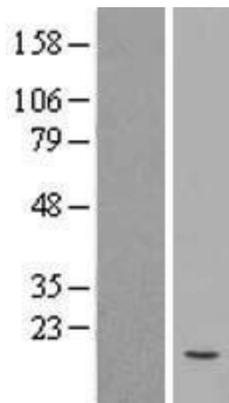
Product images:



Circular map for RC206590



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NPPB (Cat# RC206590, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NPPB (Cat# [TA809046])(1:2000). Positive lysates [LY400900] (100ug) and [LC400900] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY400900]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206590 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).