

Product datasheet for **SC126204**

BNP (NPPB) (NM_002521) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BNP (NPPB) (NM_002521) Human Untagged Clone
Tag:	Tag Free
Symbol:	BNP
Synonyms:	BNP; Iso-ANP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_002521 edited GGGCAGGTGGGAAGCAAACCCGGACGCATCGCAGCAGCAGCAGCAGCAGAAGCAGCA GCAGCAGCCTCCGACAGTCCCTCCAGAGACATGGATCCCCAGACAGCACCTTCCCGGGCGC TCCTGCTCCTGCTCTTCTTGCATCTGGCTTTCCTGGGAGGTCGTTCCACCCGCTGGGCA GCCCCGGTTCAGCCTCGGACTTGAAAACGTCCGGGTTACAGGAGCAGCGCAACCATTTGC AGGGCAAAGTGTGCGAGCTGCAGGTGGAGCAGACATCCCTGGAGCCCTCCAGGAGAGCC CCCGTCCACAGGTGTCTGGAAGTCCCGGGAGGTAGCCACCGAGGGCATCCGTGGGCACC GCAAAATGGTCTCTACACCCTGCGGGCACCACGAAGCCCAAGATGGTGCAAGGGTCTG GCTGCTTTGGGAGGAAGATGGACCGGATCAGCTCCTCCAGTGGCCTGGGCTGCAAAGTGC TGAGGCGGCATTAAGAGGAAGTCTGGCTGCAGACACCTGCTTCTGATTCCACAAGGGGC TTTTTCTCAACCCTGTGGCCGCTTTGAAGTGACTCATTTTTTAAATGTATTTATGTAT TTATTTGATTGTTTTATATAAGATGGTTTTCTTACCTTTGAGCACAAAATTTCCACGGTGA AATAAAGTCAACATTATAAGCTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_002521 unedited GTATTTTGTATACGACTCACTATAGGGCGGACCGCAATCANATCTGGTACCGGTCCGGA ATTCCCGGGATGGGCAGGTGGGAAGCAAACCCGGACGCATCGCAGCAGCAGCAGCAGCAG CAGAAGCAGCAGCAGCAGCCTCCGCAGTCCCTCCAGAGACATGGATCCCCAGACAGCACC TTCCCGGGCGCTCCTGCTCCTGCTCTTCTTGCATCTGGCTTTCTGGGAGGTCGTTCCTCA CCCGCTGGGCAGCCCCGGTTCAGCCTCGGACTTGAAAACGTCCGGGTTACAGGAGCAGCG CAACCATTTCAGGGCAAACCTGTCGGAGCTGCAGGTGGAGCAGACATCCCTGGAGCCCCT CCAGGAGAGCCCCCGTCCACAGGTGTCTGGAAGTCCCGGGAGGTAGCCACCGAGGGCAT CCGTGGGCACCGCANAATGGTCTCTACACCCTGCGGGCACACGAAGCCCAAGATGGT GCAAGGGTCTGGCTGCTTTGNGAGGAAGATGGACCGGATCAGCTCCTCAGTGGCCTGGG CTGCANAGTGCTGAGGCGGCATTAAGAGGAAGTCTGGCTGCAGACACCTGCTTCTGATT CCACAAGNGCTTTTTCTCAACCCTGTGGCCGCCTTTGAAGTGACTCATTTTTTTAATG TATTTATGTATTTATTTGATTGGTTTATATAAGATGTTTTCTTACCTTTGAGCACAAAAT TTTACGTGAAATTAAGTCAACATTATAAGCCTTAAAAAAAAANNNNNNNNANAANNNN NNNNNANANANAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGGGCGGCCGGGCAAGTT GTTCCGAAAGAACCAGGGGGGGTCCCTGGACCCCCCAAGCCCTCCGGGCCGGGAATC GCATCCAGGGCCACCCACCTGGCCCAAAAATAATGGCCCTTTTGCCGGAAG
Restriction Sites:	Please inquire
ACCN:	NM_002521
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_002521.1 , NP_002512.1
RefSeq Size:	692 bp
RefSeq ORF:	405 bp
Locus ID:	4879
UniProt ID:	P16860
Cytogenetics:	1p36.22
Protein Families:	Druggable Genome, Secreted Protein, Stem cell - Pluripotency

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]