

Product datasheet for **RC206590L4V**

BNP (NPPB) (NM_002521) Human Tagged ORF Clone Lentiviral Particle

Product data:

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|---------------------------|--|
| Product Type: | Lentiviral Particles |
| Product Name: | BNP (NPPB) (NM_002521) Human Tagged ORF Clone Lentiviral Particle |
| Symbol: | BNP |
| Synonyms: | BNP; Iso-ANP |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-mGFP-P2A-Puro (PS100093) |
| Tag: | mGFP |
| ACCN: | NM_002521 |
| ORF Size: | 402 bp |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(RC206590). |
| 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. |
| RefSeq: | NM_002521.1 |
| 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 |



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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]