

## Product datasheet for **RC236956**

### **BPNT1 (NM\_001286151) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** BPNT1 (NM\_001286151) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** BPNT1  
**Synonyms:** HEL20; PIP  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC236956 representing NM\_001286151  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCATATGTTCTTCATTGGCCCGGAAATCCCAAACCTACAATTATAGGGGAAGAGGATCTGCCTT  
CTGAGGAAGTGGATCAAGAGCTGATTGAAGACAGTCAGTGGGAAGAAATACTGAAGCAACCATGCCCATC  
GCAGTACAGTGTATTAAGAAGAAGATCTCGTGGTCTGGGTTGATCCTCTGGATGGAACCAAGGAATAT  
ACCGAAGGTCTTCTTGACAATGTAACAGTCTTATTGGAATTGCTTATGAAGGAAAAGCCATAGCAGGAG  
TTATTAACCAGCCATATTACAACATGAGGCAGGACCAGATGCTGTGTTGGGGAGGACAATCTGGGGAGT  
TTTAGGTTTAGGCGCCTTTGGGTTTCAGCTGAAAGAAGTCCCTGCTGGGAAACACATTATCACAACACT  
CGATCCCATAGCAACAAGTTGGTTACTGACTGTGTTGCTGCTATGAACCCCGATGCTGTGCTGCGAGTAG  
GAGGAGCAGGAAATAAGATTATTCAGCTGATTGAAGGCAAAGCCTCTGCTTATGTATTTGCAAGTCTGG  
TTGTAAGAAGTGGGATACTTGTGCTCCAGAAGTATTTTACATGCTGTGGGAGGCAAGTTAACCGATATC  
CATGGGAATGTTCTTCAGTACCACAAGGATGTGAAGCATATGAACTCTGCAGGAGTCTGGCCACACTGA  
GGAATTATGACTACTATGCAAGCCGAGTCCAGAATCTATTAATAATGCACCTTGTTCCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RC236956 representing NM\_001286151  
Red=Cloning site Green=Tags(s)

MSICSSLARKFPKLTIIIGEEEDLPSEEVDQELIEDSQWEEILKQPCPSQYSAIKEEDLVVWVDPLDGTKEY  
 TEGLLDNVTVLIGIAYEGKAIAGVINQPYNYEAGPDVLRGRTIWVGLGLGAFGFQLKEVPAGKHIIITTT  
 RSHSNKLVTDCAAMNPDAVLRVGGAGNKIIQLIEGKASAYVFASPGCKKWDTCAPEVILHAVGGKLTDI  
 HGNVLQYHKDVKHMNSAGVLATLRNYDYYASRPESIKNALVP

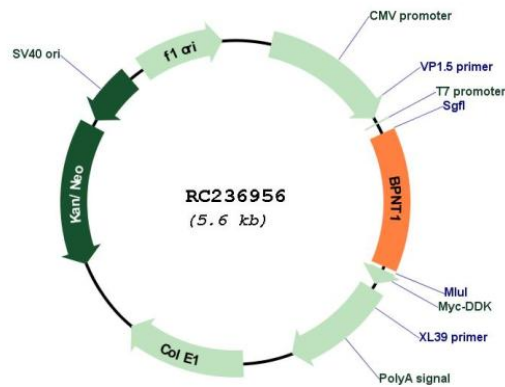
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001286151  
**ORF Size:** 759 bp

|                               |  |
|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>   |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>          |
| <b>RefSeq:</b>                | <a href="#">NM_001286151.1</a> , <a href="#">NP_001273080.1</a>  |
| <b>RefSeq Size:</b>           | 2379 bp  |
| <b>RefSeq ORF:</b>            | 762 bp   |
| <b>Locus ID:</b>              | 10380  |
| <b>UniProt ID:</b>            | <a href="#">O95861</a>   |
| <b>Cytogenetics:</b>          | 1q41   |
| <b>Protein Pathways:</b>      | Sulfur metabolism  |
| <b>MW:</b>                    | 28 kDa   |
| <b>Gene Summary:</b>          | BPNT1, also called bisphosphate 3-prime-nucleotidase, or BPntase, is a member of a magnesium-dependent phosphomonoesterase family. Lithium, a major drug used to treat manic depression, acts as an uncompetitive inhibitor of BPntase. The predicted human protein is 92% identical to mouse BPntase. BPntase's physiologic role in nucleotide metabolism may be regulated by inositol signaling pathways. The inhibition of human BPntase may account for lithium-induced nephrotoxicity. [provided by RefSeq, Jul 2008] |