

Product datasheet for **RC237076**

BPNT1 (NM_001286150) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BPNT1 (NM_001286150) 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: >RC237076 representing NM_001286150
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCTCCAGTAACACTGTGTTGATGCGGTTGGTAGCCTCCGCATATTCTATTGCTCAAAGGCAGGAA
TGATAGTCAGACGTGTTATTGCTGAAGGAGACCTGGGTATTGTGGAGAAGACCTGTGCAACAGACCTGCA
GACCAAAGCTGACCGATTGGCACAGATGAGCATATGTTCTTCATTGGCCCGGAAATCCCCAAACTCACA
ATTATAGGGGAAGAGCTCGTGGTCTGGGTTGATCCTCTGGATGGAACCAAGGAATATACCGAAGGTCTTC
TTGACAATGTAACAGTTCCTATTGGAATTGCTTATGAAGGAAAAGCCATAGCAGGAGTTATTAACCGCC
ATATTACAATATGAGGCAGGACCAGATGCTGTGTTGGGGAGGACAATCTGGGGAGTTTTAGGTTTAGGC
GCCTTTGGGTTTCAGCTGAAAGAAGTCCCTGCTGGGAAACACATTATCACAACACTCGATCCCATAGCA
ACAAGTTGGTTACTGACTGTGTTGCTGCTATGAACCCCGATGCTGTGCTGCGAGTAGGAGGAGCAGGAAA
TAAGATTATTCAGCTGATTGAAGCAAAGCCTCTGCTTATGTATTTGCAAGTCCTGGTTGAAGAAGTGG
GATACTTGTGCTCCAGAAGTTATTTACATGCTGTGGGAGGCAAGTTAACCGATATCCATGGGAATGTTC
TTCAGTACCACAAGGATGTGAAGCATATGAACTCTGCAGGAGCTGGCCACACTGAGGAATTATGACTA
CTATGCAAGCCGAGTTCAGAATCTATTAATAATGCACCTTGTTCTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237076 representing NM_001286150
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MASNTVLMRLVASAYSIAQKAGMIVRRVIAEGDLGIVEKTCATDLQTKADRLAQMSICSSLARKFPKLT
 IIGEELVWVWDPDGTKEYTEGLLDNVTVLIGIAYEGKAIAGVINQPYNYEAGPDAVLGRTIHWGLGLG
 AFGFQLKEVPAGKHIIITTRSHSNKLVDCVAAMNPDAVLRVGGAGNKIIQLIEGKASAYVFASPGCKKW
 DTCAPEVILHAVGGKLDIHGNVLQYHKDVKHMNSAGVLATLRNYDYYASRPESIKNALVP

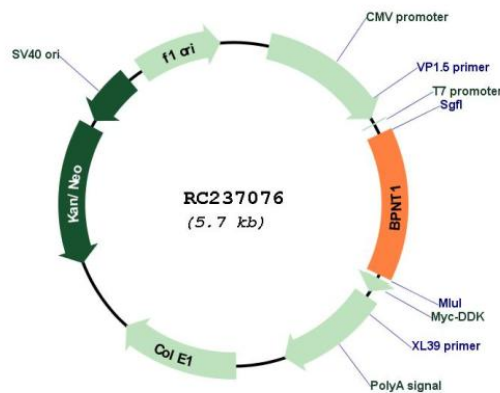
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001286150

ORF Size: 816 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:	<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_001286150.1 , NP_001273079.1
RefSeq Size:	2357 bp
RefSeq ORF:	819 bp
Locus ID:	10380
UniProt ID:	O95861
Cytogenetics:	1q41
Protein Pathways:	Sulfur metabolism
MW:	29.6 kDa
Gene Summary:	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]