

Product datasheet for **SC334850**

BPNT1 (NM_001286151) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BPNT1 (NM_001286151) Human Untagged Clone
Tag:	Tag Free
Symbol:	BPNT1
Synonyms:	HEL20; PIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001286151, the custom clone sequence may differ by one or more nucleotides

ATGAGCATATGTTCTTCATTGGCCCGAAATTCGCCAACTCACAATTATAGGGGAAGAGGATCTGCCTT
 CTGAGGAAGTGGATCAAGAGCTGATTGAAGACAGTCAGTGGGAAGAAATACTGAAGCAACCATGCCCATC
 GCAGTACAGTGTATTAAGAAGAAGATCTCGTGGTCTGGGTGATCCTCTGGATGGAACCAAGGAATAT
 ACCGAAGTCTTCTTGACAATGTAAACAGTCTTATTGGAATTGCTTATGAAGGAAAGCCATAGCAGGAG
 TTATTAACAGCCATATTACAATATGAGGCAGGACCAGATGCTGTGTTGGGAGGACAATCTGGGGAGT
 TTTAGGTTTAGGCGCCTTTGGGTTTCAGCTGAAAGAAGTCCCTGCTGGGAAACACATTATCACAATACT
 CGATCCCATAGCAACAAGTTGGTTACTGACTGTGTTGCTGCTATGAACCCCGATGCTGTGCTGCGAGTAG
 GAGGAGCAGGAAATAAGATTATTCAGCTGATTGAAGGCAAAGCCTCTGCTTATGTATTTGCAAGTCTGG
 TTGTAAGAAGTGGGATACTTGTGCTCCAGAAGTTATTTACATGCTGTGGGAGGCAAGTTAACCGATATC
 CATGGGAATGTTCTTCAGTACCACAAGGATGTGAAGCATATGAACTCTGCAGGAGTCCTGGCCACACTGA
 GGAATTATGACTACTATGCAAGCCGAGTCCAGAATCTATTAATAATGCATTGTTCTCTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001286151
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).


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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:	<u>NM_001286151.1, NP_001273080.1</u>
RefSeq Size:	2379 bp
RefSeq ORF:	762 bp
Locus ID:	10380
UniProt ID:	<u>O95861</u>
Cytogenetics:	1q41
Protein Pathways:	Sulfur metabolism
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR and lacks a portion of the 5' coding region, compared to variant 1. These differences cause translation initiation at a downstream AUG and result in an isoform (2) with a shorter N-terminus, compared to isoform 1. Variants 2 and 4 encode the same isoform (2). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>