

Product datasheet for **RG237076**

BPNT1 (NM_001286150) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BPNT1 (NM_001286150) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BPNT1
Synonyms:	HEL20; PIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237076 representing NM_001286150. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTCCAGTAACACTGTGTTGATGCGGTTGGTAGCCTCCGCATATTCTATTGCTCAAAGGCAGGA
ATGATAGTCAGACGTGTTATTGCTGAAGGAGACCTGGGTATTGTGGAGAAGACCTGTGCAACAGACCTG
CAGACCAAAGCTGACCGATTGGCACAGATGAGCATATGTTCTTCATTGGCCCGAAATTCCCAAACTC
ACAATTATAGGGGAAGAGCTCGTGGTCTGGGTTGATCCTCTGGATGGAACCAAGGAATATACCGAAGGT
CTTCTTGACAATGAACAGTTCATTATTGGAATTGCTTATGAAGGAAAAGCCATAGCAGGAGTTATTAAC
CAGCCATATTACAACATGAGGCAGGACCAGATGCTGTGTTGGGGAGGACAATCTGGGGAGTTTTAGGT
TTAGGCGCCTTTGGGTTTCAGCTGAAAGAAGTCCCTGCTGGGAAACACATTATCACAACACTCGATCC
CATAGCAACAAGTTGGTTACTGACTGTGTTGCTGCTATGAACCCCGATGCTGTGCTGCGAGTAGGAGGA
GCAGGAAATAAGATTATTCAGCTGATTGAAGGCAAAGCCTCTGCTTATGTATTTGCAAGTCTGGTTGT
AAGAAGTGGGATACTTGTGCTCCAGAAGTATTTTACATGCTGTGGGAGGCAAGTTAACCAGATATCCAT
GGGAATGTTCTTCAGTACCACAAGGATGTGAAGCATATGAACTCTGCAGGAGTCTGGCCCACTGAGG
AATTATGACTACTATGCAAGCCGAGTTCAGAATCTATTAATAATGCACTTGTTCCT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237076
 Blue=ORF Red=Cloning site Green=Tag(s)

MASNTVLMRLVASAYSIAQKAGMIVRRVIAEGDLGIVEKTCATDLQTKADRLAQMSICSSLARKFPKL
 TIIGEELVWVDPLDGTKEYTEGLLDNVTVLIGIAYEGKAIAGVINQPYNYEAGPDAVLGRTIWGVLG
 LGAFGFQLKEVPAGKHIITTRSHSNKLVTDCAAMNPDAVLRVGGAGNKIIQLIEGKASAYVFASPGC
 KKWDTCAPEVILHAVGGKLTDIHGNVLQYHKDVKHMNSAGVLATLRNYDYASRVPEIKNALVP
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
 SVIFTDKIIRSNAVTEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



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).

RefSeq: [NM_001286150.1](#), [NP_001273079.1](#)

RefSeq Size: 2357 bp

RefSeq ORF: 819 bp

Locus ID: 10380

UniProt ID: [O95861](#)

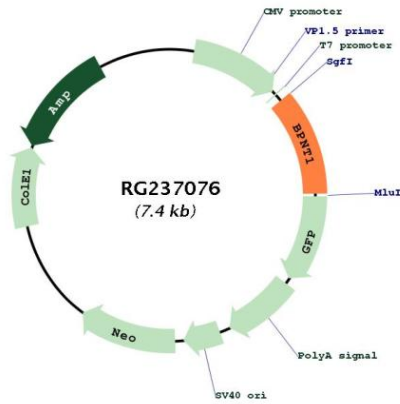
Cytogenetics: 1q41

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]

Product images:



Circular map for RG237076