

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
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CAGACCAAAGCTGACCGATTGGCACAGATGAGCATATGTTCTTCATTGGCCCGAAATCCCAAATC
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GCAGGAAATAAGATTATTCAGCTGATTGAAGGCAAAGCCTCTGCTTATGTATTTGCAAGTCTGGTTGT
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GGGAATGTTCTTCAGTACCACAAGGATGTGAAGCATATGAACTCTGCAGGAGTCTGGCCCACTGAGG
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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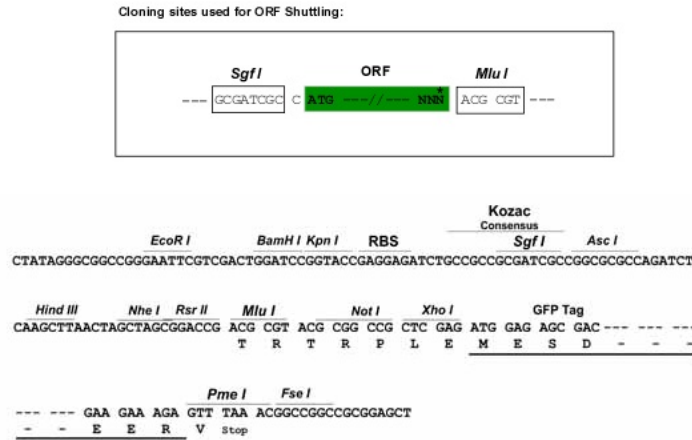
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Protein Sequence: >Peptide sequence encoded by RG237076
 Blue=ORF Red=Cloning site Green=Tag(s)

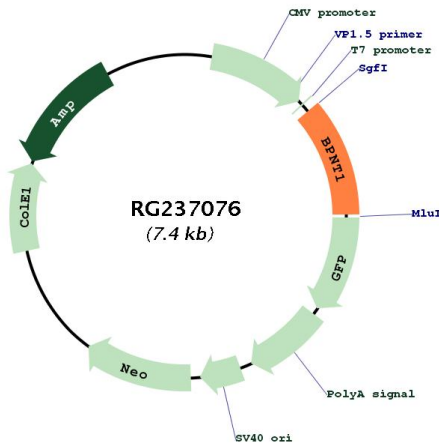
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 LGAFGFQLKEVPAGKHIITTRSHSNKLVTDCAAMNPDAVLRVGGAGNKIIQLIEGKASAYVFASPGC
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 SVIFTDKIIIRSNAVTEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

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).
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]