

Product datasheet for **RG209799**

BPNT2 (NM_017813) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BPNT2 (NM_017813) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BPNT2
Synonyms:	GPAPP; IMP-3; IMP 3; IMPA3; IMPAD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209799 representing NM_017813 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCCATGGGCATCCGCCTTTCCCACTGGGGGTGGCAGTGTTCCTGCTGGGGCTCGGCGTGC
TCTACCACCTCTACTCGGGCTTCTGGCCGGCCGCTTCAGCCTCTTCGGCCTGGGCGGAGCCTGGCGG
CGGCGCGGCGGAGCCCGCGCCGCGCCGATGGGGCACCGTGGACTTGCAGGAGATGCTGGCTGTGTCA
GTGCTGGCCGAGTCCGCGCGGCGACGAGGTGAGGCGCGTCCGCGAGAGCAACGTCCTCCACGAGAAGT
CCAAGGGGAAGACGCGCGAGGGAGCCGAGGACAAGATGACCAGCGCGACGTGCTGTCCAACCGCAAGAT
GTTCTACCTGCTCAAGGCCGCTTCCCCAGCGTCCAGATTAATACTGAGGAACACGTGGATGCAGCTGAT
CAGGAGGTTATCTTGTGGATCATAAGATTCTGAGGATATCCTAGAGGAAGTAACACTCTCTAAAGAGG
TACCAGCAGAAAGTGTACTGTCTGGATTGACCCACTTGATGCTACACAGGAATATACAGAGGATCTTCG
AAAGTACGTCACTACTATGGTGTGTGGCTGTAATGGTAAACCATGCTAGGAGTTATACATAAGCCA
TTTTCCGAATATACAGCTTGGGCAATGGTAGATGGTGGTTCAAATGTGAAAGCCCGCTCTTCTACAATG
AGAAGACCCCAAGGATCGTTGTGTCTCGTTCCATTGAGGGATGGTCAAACAGGTCGCTCTTCAGACTTT
TGAAAACAGACTACAATTATCCAGCTGGTGGTGTGCTGGTTATAAAGTTTTAGCACTTTTGGATGTGCT
GATAAGAGTCAAGAAAAAGCTGATTTATACATCCATGTGACATACATCAAAAAGTGGGATATATGTGCTG
GTAATGCCATCTTAAAAGCCCTAGGGGGCATATGACTACCCTGAGTGGTGAAGAAATCAGTTACACTGG
TTCAGACGGCATTGAAGGGGACTCCTTGTAGCATCAGAATGAACCACCAGGCCCTGGTCAGAAAACCT
CCAGATCTAGAAAAGACAGGACATAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209799 representing NM_017813
 Red=Cloning site Green=Tags(s)

MAPMGIRLSPLGVAVFCLLGLGLVLYHLYSGFLAGRFSLFGLGGEPGGAAEPAADGGTVDLREMLAVS
 VLAAVRGGDEVRRVRESNVLHEKSKGKTREGAEDKMTSGDVL SNRKM FYLLKAAFPSVQINTEEHVDAAD
 QEVILWDHKIPEDILEEVTPKVEPAESVTWIDPLDATQEYTEDLRKYVTTMVCVAVNGK PMLGVIHKP
 FSEYTAWAMVDGGSNVKARSSYNEKTPRIVVSRS HSGMVKQVALQTFGNQTTIIPAGGAGYKVLALLDVP
 DKSQEKADLYIHVTYIKKWDICAGNAILKALGGHMTTLSGEEISYTGSDGIEGGLLASIRMNHQALVRKL
 PDLEKTGHK

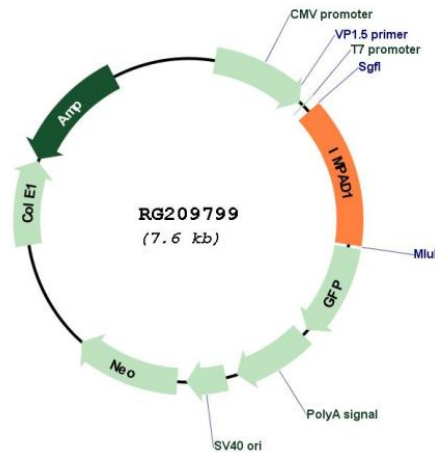
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_017813

ORF Size:	1077 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_017813.2 , NP_060283.2
RefSeq Size:	2438 bp
RefSeq ORF:	1080 bp
Locus ID:	54928
UniProt ID:	Q9NX62
Cytogenetics:	8q12.1
Domains:	inositol_P
Protein Families:	Transmembrane
Gene Summary:	This gene encodes a member of the inositol monophosphatase family. The encoded protein is localized to the Golgi apparatus and catalyzes the hydrolysis of phosphoadenosine phosphate (PAP) to adenosine monophosphate (AMP). Mutations in this gene are a cause of GRAPP type chondrodysplasia with joint dislocations, and a pseudogene of this gene is located on the long arm of chromosome 1. [provided by RefSeq, Dec 2011]