

Product datasheet for **MG204360**

Bpnt1 (BC011036) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bpnt1 (BC011036) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bpnt1
Synonyms:	BPntase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204360 representing BC011036 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTCAGCCACACCGTGTTGATGCGGCTGGTAGCTTCAGCATATTCTATCGCTCAAAGGCAGGAA
CCATAGTCAGGTGTGTCATTGCTGAAGGAGACCTGGGCATCGTGCAGAAGACCTCGGCCACCGACCTGCA
GACCAAAGCTGACCGCTTGGTGCAGATGAGCATATGCTCTTCCCTGGCCCGGAAGTTCCCGAAGCTGACC
ATCATAGGGGAAGAGGACCTGCCTCCTGGGAAGTGGATCAAGAGCTGATTGAAGACGGCAGTGGGAGG
AGATCCTGAAGCAGCCGTGCCCTCGCAGTACAGTGCTATCAAGGAGGAAGACCTTGTGGTTTGGGTTGA
CCCTTAGATGGACCAAGGAGTACACTGAAGTCTTCTTGACAATGTAACAGTTCTCATTGGGATTGCT
TATGAAGGAAAGGCCATCGCAGGCATCATCAACCAGCCGTATTACAACCTACCAGGCAGGACCCGACGCGG
TGCTGGGCAGGACCATCTGGGGAGTTCTGGGTTTGGGTGCTTTTGGGTTTCAGCTGAAGGAAGCCCTGC
CGGGAAGCGCATTATCACAACCACCAGATCCCATAGCAACCAGCTGGTCACAGACTGCATTTCCGCCATG
AACCCCGACCCGTGCTGCGAGTGGGAGGAGCAGGAAACAAGATTATCCAGCTGATCGAAGGCAAAGCTT
CTGCCTATGTGTTTGAAGTCTGGGTGTAAGAAGTGGGACACTGTGCCCCAGAAGTTATCTTGATGC
TGTGGGAGGGAAGTTGACAGACATCCATGGGAATGCCCTGCAGTACAACAAGGAGGTGAAACATATGAAC
TCTGCCGTGTCCTGGCTGCACTGAGGAACTACGAGTACTATGCAAGCCATGTTCCAGAGTCGGTCAAAA
ATGCGCTATTCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204360 representing BC011036
 Red=Cloning site Green=Tags(s)

MASSHTVLMRLVASAYSIAQKAGTIVRCVIAEGDLGIVQKTSATDLQTKADRLVQMSICSSLARKFPKLT
 IIGEDLPPGEVDQELIEDGQWEEILKQPCPSQYSAIKEEDLVVWVDPLDGTKEYTEGLLDNVTVLIGIA
 YEGKAIAGIINQPYNYQAGPDAVLGRTIWGVLGLGAFGFQLKEAPAGKRIITTTTRSHSNQLVTDICISAM
 NPDTVLRVGGAGNKIIQLIEGKASAYVFASPGCKKWDCAPEVILHAVGGKLTDIHGNAIQYNKEVKHMM
 SAGVLAALRNIEYASHVPESVKNALIP

TRTRPLE - GFP Tag - V

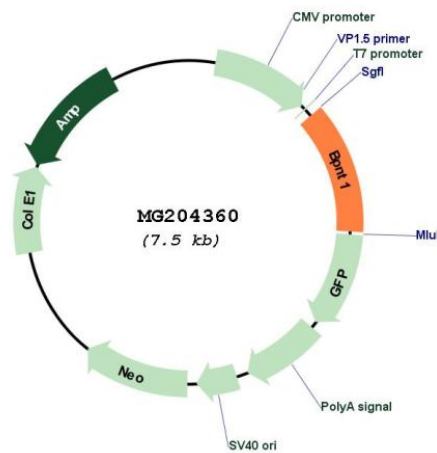
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: BC011036

ORF Size: 926 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:	BC011036 , AAH11036
RefSeq Size:	1165 bp
RefSeq ORF:	926 bp
Locus ID:	23827
Cytogenetics:	1 H5
Gene Summary:	Converts adenosine 3'-phosphate 5'-phosphosulfate (PAPS) to adenosine 5'-phosphosulfate (APS) and 3'(2')-phosphoadenosine 5'- phosphate (PAP) to AMP. Has 1000-fold lower activity towards inositol 1,4-bisphosphate (Ins(1,4)P2) and inositol 1,3,4-trisphosphate (Ins(1,3,4)P3), but does not hydrolyze Ins(1)P, Ins(3,4)P2, Ins(1,3,4,5)P4 or InsP6.[UniProtKB/Swiss-Prot Function]