

Product datasheet for **RR209568**

Bpnt1 (NM_171990) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bpnt1 (NM_171990) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Bpnt1
Synonyms: Sal3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR209568 representing NM_171990
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCTTCAGCCACAATGTGTTGATGCGGCTGGTAGCCTCCGCATACTCTATCGCTCAGAAGGCAGGAA
CCATCGTCAGGTGTGTCATCGCTGAAGGAGACCTGGGCATCGTGCAGAAGACCTCAGCCACTGACCTGCA
GACCAAAGCAGACCGCATGGTACAGATGAGCATATGCTCTTCCCTGTCCCGGAAATTCCCGAAGCTGACG
ATCATCGGGGAAGAGGACCTGCCTCCTGGAGAAGTGGATCAAGAACTGATTGAAGACGGGACGTCGGAGG
AGATCCTGAAGCAGCCGTGCCATCGCAGTACAGTGAATCAAGGAGGAAGACCTTGTGGTTTGGGTTGA
CCCCGTAGATGGTACCAAGGAATACACTGAAGGCTCTTCTTGACAATGTAACAGTGCTCATTGGGATTGCT
TATGAAGGAAAGGCCATCGCAGGCATCATCAACCAGCCATATTACAACCTACCAGGCAGGACCGGACGCCG
TGCTGGGCAGGACCATCTGGGGAGTCTGGGTTTGGGTGCCTTTGGGTTTCAGCTGAAAGAAGCCCTGC
TGGGAAGCACATCATCACCACCACAGATCCCATAGCAACAAGCTGGTCACAGACTGCATTGCAGCCATG
AACCTGACAACGTGCTGCGAGTGGGAGGAGCAGGAAACAAGATTATCCAGCTGATTGAAGGCAAAGCCT
CTGCTTATGTATTGCAAGTCTGGATGTAAGAAATGGGATACTTGTGCCCCAGAAGTTATCTTACATGC
TGTAGGAGGGAAGTTGACAGACATCCACGGGAATCCCCTGCAGTACGACAAGGAGGTGAAACACATGAAC
TCTGCTGGAGTTCTGGCTGCACTGCGGAATTATGAGTACTATGCAAGCCGCTACCAGAGTCTGTCAAAA
GTGCACTCATTCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RR209568 representing NM_171990
Red=Cloning site Green=Tags(s)

MASSHNVLMRLVASAYSIAQKAGTIVRCVIAEGDLGIVQKTSATDLQTKADRMVQMSICSSLSRKFPKLT
 IIGEDLPPGEVDQELIEDGQSEEILKQPCPSQYSAIKEEDLVVWVDPVDGTKEYTEGLLDNVTVLIGIA
 YEGKAIAGIINQPYNYQAGPDAVLGRTIWVGLGLGAFGFQLKEAPAGKHIITTTTRSHSNKLVTDCAAM
 NPDNVLRVGGAGNKIIQLIEGKASAYVFASPGCKKWDCAPEVILHAVGGKLTDIHGPNLQYDKEVKHMM
 SAGVLAALRNIEYYASRPESVKSALIP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

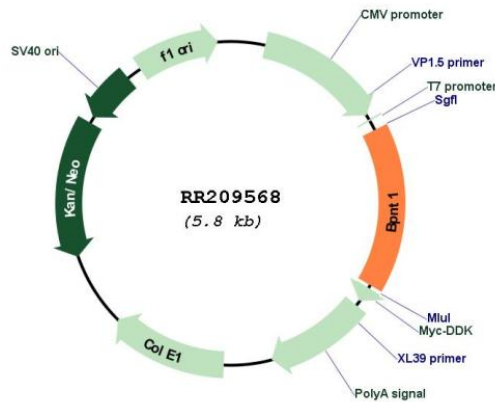
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_171990

ORF Size: 924 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_171990.2 , NP_741987.1
RefSeq Size:	1965 bp
RefSeq ORF:	927 bp
Locus ID:	64473
UniProt ID:	Q9Z1N4
Cytogenetics:	13q26
MW:	33.2 kDa
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]