

## Product datasheet for **MC228084**

### Banp (NM\_001285983) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Banp (NM_001285983) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Banp
Synonyms:	AA408158; SMAR1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228084 representing NM\_001285983  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATGTCAGAGCAGACCTGGCGGATGTGGTTTCAGATTGCAGTGAAGACCTGAGCCCTGATCACCCAG  
 TTGTTTTGGAGAATCATGTCGTGACAGATGATGATGAACCTGCCTTGAAGCGCCAGCAGTACAGATCAA  
 TTGCCAGGACCCCTCTATAAAGTCTTCTGTACTCTATTAACCAGACGATATGTTTGCGGTTGGATAGC  
 ATTGAGGCCAAGCTGCAAGCTCTCGAGGCCACTTGCAAATCTCTGGAAGAGAAGCTAGACCTGGTCACCA  
 AATAACAGCACAGTCCCATCCAGGTCCCATGGTGGCAGGTTCCCACCTGGCGCCACCCAGACCTGCAA  
 CAAAGTGCATGCGCTGTTCTGGGCGTCGCGAGAACCACCTCGTGGTAAAAGTGCCTGGTCAGGACGAC  
 AGCCACAACGAAGATGGGAGAGCGGGTCAGAGGCCAGTACTCCGTGTCTAACTGTGGCCAGCCAGGAA  
 GCCAGAACATTGGAAGCAACGTCACTCATCACCTGAACTCCGAAGAGGACTATCCAATGGCACCTG  
 GCTGGGCGATGAGAATAACCCTGAGATGCGGGTACGCTGTGCCATCATCCCTCCGACATGTTGCACATC  
 AGCACCAACTGTCGCACGGCCGAGAAGATGGCGCTGACACTGCTGGACTACCTGTTCCACCGTGAGGTGC  
 AGGCTGTGTCCAACCTGTCCGGCCAGGGCAAGCACGGGAAGAAGCAGCTGGACCCCTCACCATCTACGG  
 CATCCGGTGTACCTCTTCTATAAATTTGGAATCACGGAATCTGACTGGTATCGGATCAAGCAGAGCATT  
 GACTCCAAGTGCCGGACAGCCTGGCGCGGAAGCAGCGAGGCCAGAGCCTGGCGGTCAAGAGCTTCTCTC  
 GGAGGACGCCATCCTCATCTCTTACAGTGCCTCAGAGACCATGATGGGAACCCCTCCTCCCACAGTGA  
 GCTACAGCAGTACAGCCACAGGCCCTACACTACGCCCTGGCCAACGCCAGCAGTCCAGATCCACCAG  
 ATGGGGAGGATGGACAGGTGCAAGTAGGCCACCTCCACATTGCCAGGTGCCTCAAGGGGAGCAGGTGC  
 AGATCACACAGGACAGCGAGGGCAATCTGCAGATCCATCATGTGGGTGAGGATGGCCAGTCTGGGCTCTG  
 GTGCCAGAATCCCATTCCTGTGTCAGCGGTGACTCAGTGGCCAGGCTAATCCCTCCAGCTTGGCCTCTG  
 GGAGGAGACACACTTGATCTGCCTGCTGAAAATGAAATGATCCAGGTACTGCAGGGTGTCTAGCTCATAG  
 CCGTGGCCTCTTACAGCCTGCTGCTACAGGAGTAGATGGGTGCGCTCTCCAGGGCAGTGACATTAGGT  
 TCAGTATGTCCAGCTGGCGCCTGTGAGTGACCACAGCCGAGCGCAGACCGCAGAGGCCCTGCAGCCC  
 ACTCTGCAGCCCACATGCAGCTTGAACATGGGGCCATCCAGATCCAG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001285983
- Insert Size:** 1521 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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:**

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\\_001285983.1](#), [NP\\_001272912.1](#)

**RefSeq Size:** 5372 bp

**RefSeq ORF:** 1521 bp

**Locus ID:** 53325

**UniProt ID:** [Q8VBU8](#)

**Cytogenetics:** 8 70.82 cM

**Gene Summary:** Controls V(D)J recombination during T-cell development by repressing T-cell receptor (TCR) beta enhancer function. Binds to scaffold/matrix attachment region beta (S/MARbeta), an ATC-rich DNA sequence located upstream of the TCR beta enhancer. Represses cyclin D1 transcription by recruiting HDAC1 to its promoter, thereby diminishing H3K9ac, H3S10ph and H4K8ac levels. Promotes TP53 'Ser-15' phosphorylation and nuclear accumulation, which causes cell cycle arrest and inhibits tumor growth.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (4) lacks an alternate in-frame exon and uses an alternate splice site in the coding region compared to variant 2. The resulting protein (isoform 4) is shorter but has the same N- and C-termini compared to isoform 2. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.