OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC228097

Banp (NM_001285981) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Banp (NM_001285981) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Banp
Synonyms:	AA408158; SMAR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC228097 representing NM_001285981
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGTCAGAGCAGGACCTGGCGGATGTGGTTCAGATTGCAGTGGAAGACCTGAGCCCTGATCACCCAG
TTGTTTTGGAGAATCATGTCGTGACAGATGATGATGAACCTGCCTTGAAGCGCCAGCGACTAGAGATCAA
TTGCCAGGACCCCTCTATAAAGTCTTTCCTGTACTCTATTAACCAGACGATATGTTTGCGGTTGGATAGC
ATTGAGGCCAAGCTGCAAGCTCTCGAGGCCACTTGCAAATCTCTGGAAGAGAAGCTAGACCTGGTCACCA
ATAAACAGCACAGTCCCATCCAGGTCCCCATGGTGGCAGGTTCCCCACTTGGCGCCACCCAGACCTGCAA
CAAAGTGCGATGCGCTGTTCCTGGGCGTCGGCAGAACACCATCGTGGTGAAAGTGCCTGGTCAGGACGAC
AGCCACAACGAAGATGGGGAGAGCGGGTCAGAGGCCAGTGACTCCGTGTCTAACTGTGGCCAGCCAGGAA
GCCAGAACATTGGAAGCAACGTCACACTCATCACCCTGAACTCCGAAGAGGACTATCCCAATGGCACCTG
GCTGGGCGATGAGAATAACCCTGAGATGCGGGTACGCTGTGCCATCATCCCTTCCGACATGTTGCACATC
AGCACCAACTGTCGCACGGCCGAGAAGATGGCGCTGACACTGCTGGACTACCTGTTCCACCGTGAGGTGC
AGGCTGTGTCCAACTTGTCCGGCCAGGGCAAGCACGGGAAGAAGCAGCTGGACCCCCTCACCATCTACGG
CATCCGGTGTCACCTCTTCTATAAATTTGGAATCACGGAATCTGACTGGTATCGGATCAAGCAGAGCATT
GACTCCAAGTGCCGGACAGCCTGGCGGCGGAAGCAGCGAGGCCAGAGCCTGGCGGTCAAGAGCTTCTCTC
GGAGGACGCCATCCTCATCCTCTTACAGTGCCTCAGAGACCATGATGGGAACCCCTCCTCCCACCAGTGA
GCTACAGCAGTCACAGCCACAGGCCCTACACTACGCCCTGGCCAACGCCCAGCAGGTCCAGATCCACCAG
ATTGGGGAGGATGGACAGGTGCAAGTAATCCCACAGGGCCACCTCCACATTGCCCAGGTGCCTCAAGGGG
AGCAGGTGCAGATCACACAGGACAGCGAGGGCAATCTGCAGATCCATCATGTGGGTCAGGATGGCCAGTC
GTGGGGCCTGTGCCAGAATCCCATTCCTGTCAGCGGTGACTCAGTGGCCCAGGCTAATCCCTCCCAGCTT
TGGCCTCTGGGAGGAGACACACTTGATCTGCCTGCTGGAAATGAAATGATCCAGGTACTGCAGGGTGCTC
AGCTCATAGCCGTGGCCTCTTCAGACCCTGCTGCTACAGGAGTAGATGGGTCGCCTCTCCAGGGCAGTGA
CATTCAGGTTCAGTATGTCCAGCTGGCGCCTGTGAGTGACCACACAGCCGCAGCGCAGACCGCAGAGGCC
CTGCAGCCCACTCTGCAGCCCGACATGCAGCTTGAACATGGGGCCATCCAGATCCAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001285981

Insert Size: 1530 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).

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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_001285981.1, NP_001272910.1
RefSeq Size:	5381 bp
RefSeq ORF:	1530 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 (3) lacks an alternate in-frame exon in the coding region compared to variant 2. The resulting protein (isoform 3) 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.

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