

Product datasheet for **MR208181**

Banp (NM_016812) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Banp (NM_016812) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Banp
Synonyms:	AA408158; SMAR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208181 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGTCAGAGCAGGACCTGGCGGATGTGGTTAGATTGCAGTGAAGACCTGAGCCCTGATCACCCAG
 TTGTTTTGGAGAATCATGTCGTGACAGATGATGATGAACCTGCCTTGAAGCGCCAGCGACTAGAGATCAA
 TTGCCAGGACCCCTCTATAAAGTCTTCTGTACTCTATTAACCAGACGATATGTTTGCGGTTGGATAGC
 ATTGAGGCCAAGCTGCAAGCTCTCGAGGCCACTTGCAAATCTCTGGAAGAGAAGCTAGACCTGGTACCCA
 AATAACAGCACAGTCCCATCCAGGTCCCATGGTGGCAGGTTCCCACCTTGGCGCCACCCAGACCTGCAA
 CAAAGTGCATGCGTTCGCCCCAGACTACAGTAATACTCAACAATGATCGGCAGAACGCCATTGTAGCC
 AAGATGGAAGACCCATTGAGCAACAGGGCACCGGATTCCCTGGAAAATATCATTAGCAACGCTGTTCTGT
 GCGCTCGGCAGAACACCATCGTGGTAAAGTGCCTGGTCAGGACGACAGCCACAACGAAGATGGGGAGAG
 CGGGTCAGAGGCCAGTACTCCGTGTCTAACTGTGGCCAGCCAGGAAGCCAGAACATTGGAAGCAACGTC
 AACTCATCACCTGAACTCCGAAGAGGACTATCCCAATGGCACCTGGCTGGGCGATGAGAATAACCTG
 AGATGCGGGTACGCTGTGCCATCATCCCTTCCGACATGTTGCACATCAGACCAACTGTCGACGGCCGA
 GAAGATGGCGCTGACACTGCTGGACTACCTGTTCCACCGTGGAGTGCAGGCTGTGTCCAACCTTGTCCGGC
 CAGGGCAAGCACGGGAAGAAGCAGCTGGACCCCTCACCATCTACGGCATCCGGTGTACCTCTTCTATA
 AATTTGGAATCACGGAATCTGACTGGTATCGGATCAAGCAGAGCATTGACTCCAAGTGCCGGACAGCCTG
 GCGGGGAAGCAGCGAGGCCAGACCTGGCGGTCAAGAGCTTCTCTCGGAGGACCCATCCTCATCTCT
 TACAGTGCCTCAGAGACCATGATGGGAACCCCTCCTCCACCAGTGAGCTACAGCAGTACAGCCACAGG
 CCCTACACTACGCCCTGGCCAACGCCAGCAGGTCAGATCCACCAGATTGGGGAGGATGGACAGGTGCA
 AGTAATCCACAGGGCCACCTCCACATTGCCAGGTGCCCTCAAGGGGAGCAGGTGCAGATCACACAGGAC
 AGCGAGGGCAATCTGCAGATCCATCATGTGGGTGAGGATGGCCAGTCTGTGGGGCCTGTGCCAGAATCCCA
 TTCCTGTGAGCGGTGACTCAGTGGCCAGGCTAATCCCTCCAGCTTTGGCCTCTGGGAGGAGACACT
 TGATCTGCCTGTGGAATGAAATGATCCAGGTAAGTGCAGGCTGCTCAGCTCATAGCCGTGGCCTTTCA
 GACCCTGTGCTACAGGAGTAGATGGGTGCCTCTCCAGGGCAGTACATTAGGTTGATGTCCAGC
 TGGCGCCTGTGAGTGACCACACAGCCGACGCGCAGACCCGAGAGGCCCTGCAGCCACTCTGCAGCCGA
 CATGCAGCTTGAACATGGGGCCATCCAGATCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208181 protein sequence
 Red=Cloning site Green=Tags(s)

MMSEQDLADVVIQIAVEDLSPDHPVLENHVVTDDDEPALKRQRLEINCQDPSIKSFLYSINQITICLRDLS
 IEAKLQALEATCKSLEEKLDLVTNKQHSPIQVPMVAGSPLGATQTCNKVRCVVPQTIVILNDRQNAIVA
 KMEDPLSNRAPDSLENIISNAVPGRRQNTIVVKVPGQDDSHNEDGESGSEASDSVSNCGQPGSQNIGSNV
 TLITLNSEEDYPNGTWLGDENPEMRVRCIIPSDMLHISTNCRTAEKMALTLDDYLFHREVQAVSNLSG
 QGKHGKKQLDPLTIYGIKCHLFYKFGITESDWYRIKQSIDSKRTAWRRKQRGQSLAVKSFRRTPSSSS
 YSASETMMGTPPPTSELQSQPQALHYALANAQQVQIHQIGEDGQVQVIPQGHLLHIAQVPQGEQVQITQD
 SEGNLQIHHVQDQSWGLCQNPVSGDSVAQANPSQLWPLGGDTLDLPAGNEMIQVLQGAQLIAVASS
 DPAATGVDGSPLQGSQVQVYVQLAPVSDHTAAAQTAELQPTLQPDMLQLEHGAIQIQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_016812

ORF Size: 1647 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

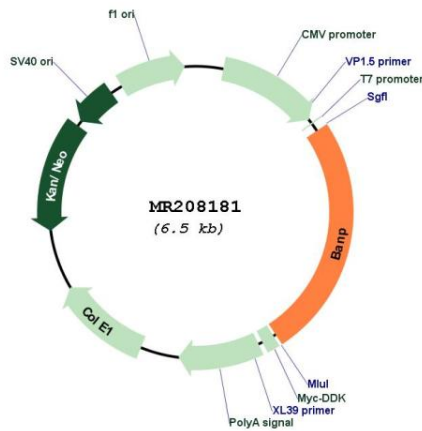
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:**
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_016812.4](#)
 RefSeq Size: 5498 bp
 RefSeq ORF: 1647 bp
 Locus ID: 53325
 UniProt ID: [Q8VBU8](#)
 Cytogenetics: 8 70.82 cM
 MW: 59.7 kDa

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]

Product images:



Circular map for MR208181