

Product datasheet for **MC200795**

Banp (BC022168) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Banp (BC022168) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Banp
Synonyms:	AA408158; SMAR1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC022168
 CCACGCGTCCGGCGAGGACGGACGCCATTATCGCAGCTCCCCGACAAACACCACGAGAATCCGCAGCCC
 ACACGGTGACAGAAACCCCATACCCTGTGACTTCTGGACTCTTGTGTGTCAGTGTGCCCTTCTCGTGCT
 CTGGATGATGTCAGAGCAGGACCTGGCGGATGTGGTTCAGATTGCAGTGGAGACCTGAGCCCTGATCAC
 CCAATTGTTTTGGAGAATCATGTCGTGACAGATGATGATGAACCTGCCTTGAAGCGCCAGCGACTAGAGA
 TCAATTGCCAGGACCCCTCTATAAAGTCTTTCTGTACTCTATTAACCAGACGATATGTTTGGCGTTGGA
 TAGCATTTGAGGCCAAGCTGCAAGCTCTCGAGGCCACTTGCAAATCTCTGGAAGAGAAGCTAGACCTGGTC
 ACCAATAAACAGCACAGTCCCATCCAGGTCCCCATGGTGGCAGGTTCCCCACTTGGCGCCACCCAGACCT
 GCAACAAAGTGCGATGCGTCTGCCCCAGACTACAGTAATACTCAACAATGATCGGCAGAACGCCATTGT
 AGCCAAGATGGAAGACCCATTGAGCAACAGGGACCCGATTCCCTGGAAAATATCATTAGCAACGCTGTT
 CCTGGGCGTCCGACAGAACCCATCGTGGTAAAAGTGCCTGGTCAGGACGACAGCCACAACGAAGATGGGG
 AGAGCGGGTCCAGAGCCAGTACTCCGTGCTAACTGTGGCCAGCCAGGAAGCCAGAACATTGGAAGCAA
 CGTCACACTCATACCCTGAACCTCGAAGAGGACTATCCCAATGGCACCTGGCTGGGCGATGAGAATAAC
 CCTGAGATGCGGGTACGCTGTGCCATCATCCCTCCGACATGTTGCACATCAGCACCAACTGTCGACGG
 CCGAGAAGATGGCGCTGACACTGCTGGACTACCTGTTCCACCGTGAGGTGCAGGCTGTGTCCAATTGTC
 CGGCCAGGGCAAGCACGGGAAGAAGCAGCTGGACCCCTCACCATCTACGGCATCCGGTGTACCTCTTC
 TATAAATTTGGAATCACGGAATCTGACTGGTATCGGATCAAGCAGAGCATTGACTCCAAGTGCCGGACAG
 CCTGGCGGCGGAAGCAGCGAGGCCAGAGCCTGGCGGTCAAGAGCTTCTCTCGGAGGACGCCATCCTCATC
 CTCTTACAGTGCCTCAGAGACCATGATGGGAACCCCTCTCCACCAGTGAGCTACAGCAGTCACAGCCA
 CAGGCCCTACACTACGCCCTGGCCAACGCCCAGCAGGTCCAGATCCACCAGATTGGGGAGGATGGACAGG
 TGCAAGTAATCCACAGGGCCACCTCCACATTGCCAGGTGCCTCAAGGGGAGCAGGTGCAGATCACACA
 GGACAGCGAGGGCAATCTGCAGATCCATCATGTGGTTCAGGATGGCCAGTCTGTGGGCGCTGTGCCAGAAT
 CCCATTCTGTGAGCGGTGACTCAGTGGCCAGGCTAATCCCTCCAGCTTTGGCCTCTGGGAGGAGACA
 CACTTGATCTGCCTGCTGGAAATGAAATGATCCAGGTACTGCAGGCTGCTCAGCTCATAGCCGTGGCCTC
 TTCAGACCCTGCTGCTACAGGAGTAGATGGTTCGCTCTCCAGGGCAGTGACATTAGGTTAGTATGTC
 CAGCTGGCGCCTGTGAGTGACCACACAGCCGACGCGCAGACCGCAGAGGCCCTGCAGCCACTCTGCAGC
 CCGACATGCAGCTTGAACATGGGGCCATCCAGATCCAGTGAAGCCAGGACTGCAGGAGCACCGAGTAC
 AGCTGCTCGTGACCCTGCCCACTCGTGCCCTGCTCTTTGCTTACAGCAAGCAACTGCAGGTTCTGCTG
 GGCATCTGAGAGCTGCTCCTCCAGGGGAAGTCTGGCCACCCCTGCTGGAAGGCGCTCAGGGTTGGA
 GTCTCACTACTGGTCTGCTCAAAGGAGAAGCATAGTGCAGAGTGTGAGTGCATTACAGACAGACAAGAA
 CTACGATATTTTGTAAACAGCTTTTTTAATTTGCTATGGTGTATAACAAAAAGAAAATGGAAAAA AAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: BC022168

Insert Size: 1647 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).

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: [BC022168](#), [AAH22168](#)

RefSeq Size: 2115 bp

RefSeq ORF: 1647 bp

Locus ID: 53325

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]