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Product datasheet for MR227667

Banp (NM_001110100) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Banp (NM_001110100) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Banp
Synonyms:	AA408158; SMAR1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>MR227667 representing NM_001110100
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGTCAGAGCAGGACCTGGCGGATGTGGTTCAGATTGCAGTGGAAGACCTGAGCCCTGATCACCCAG
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TTGCCAGGACCCCTCTATAAAGTCTTTCCTGTACTCTATTAACCAGACGATATGTTTGCGGTTGGATAGC
ATTGAGGCCAAGCTGCAAGCTCTCGAGGCCACTTGCAAATCTCTGGAAGAGAAGCTAGACCTGGTCACCA
ATAAACAGCACAGTCCCATCCAGGTCCCCATGGTGGCAGGTTCCCCACTTGGCGCCACCCAGACCTGCAA
CAAAGTGCGATGCGTCGTCCCCCAGACTACAGTAATACTCAACAATGATCGGCAGAACGCCATTGTAGCC
AAGATGGAAGACCCATTGAGCAACAGGGCACCGGATTCCCTGGAAAATATCATTAGCAACGCTGTTCCTG
GGCGTCGGCAGAACACCATCGTGGTGAAAGTGCCTGGTCAGGACGACAGCCACAACGAAGATGGGGAGAG
CGGGTCAGAGGCCAGTGACTCCGTGTCTAACTGTGGCCAGCCAGGAAGCCAGAACATTGGAAGCAACGTC
ACACTCATCACCCTGAACTCCGAAGAGGACTATCCCAATGGCACCTGGCTGGGCGATGAGAATAACCCTG
AGATGCGGGTACGCTGTGCCATCATCCCTTCCGACATGTTGCACATCAGCACCAACTGTCGCACGGCCGA
GAAGATGGCGCTGACACTGCTGGACTACCTGTTCCACCGTGAGGTGCAGGCTGTGTCCAACTTGTCCGGC
CAGGGCAAGCACGGGAAGAAGCAGCTGGACCCCCTCACCATCTACGGCATCCGGTGTCACCTCTTCTATA
AATTTGGAATCACGGAATCTGACTGGTATCGGATCAAGCAGAGCATTGACTCCAAGTGCCGGACAGCCTG
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CCCTACACTACGCCCTGGCCAACGCCCAGCAGGTCCAGATCCACCAGATTGGGGAGGATGGACAGGTGCA
AGTAGGCCACCTCCACATTGCCCAGGTGCCTCAAGGGGAGCAGGTGCAGATCACACAGGACAGCGAGGGC
AATCTGCAGATCCATCATGTGGGTCAGGATGGCCAGTCGTGGGGCCTGTGCCAGAATCCCATTCCTGTCA
GCGGTGACTCAGTGGCCCAGGCTAATCCCTCCCAGCTTTGGCCTCTGGGAGGAGACACACTTGATCTGCC
TGCTGGAAATGAAATGATCCAGGTACTGCAGGGTGCTCAGCTCATAGCCGTGGCCTCTTCAGACCCTGCT
GCTACAGGAGTAGATGGGTCGCCTCTCCAGGGCAGTGACATTCAGGTTCAGTATGTCCAGCTGGCGCCTG
TGAGTGACCACACAGCCGCAGCGCAGACCGCAGAGGCCCTGCAGCCCACTCTGCAGCCCGACATGCAGCT
TGAACATGGGGCCATCCAGATCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

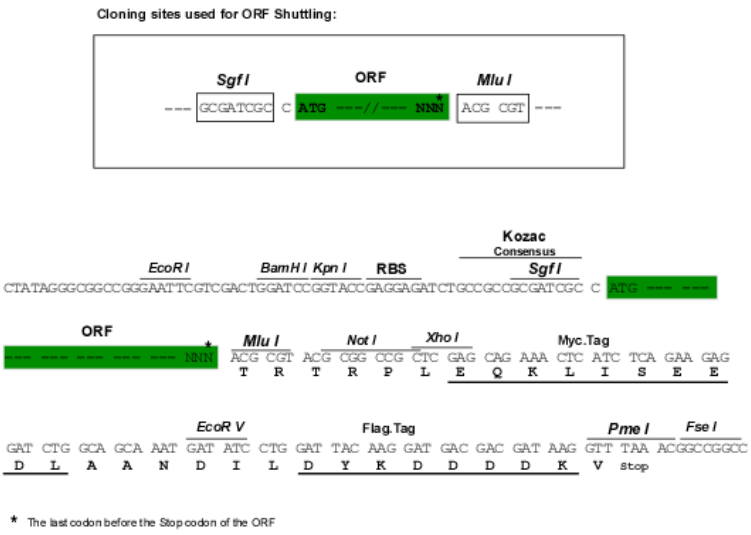
>MR227667 representing NM_001110100
Red=Cloning site Green=Tags(s)

MMSEQDLADVVQIAVEDLSPDHPVVLENHVVTDDDEPALKRQRLEINCQDPSIKSFLYSINQTICLRLDS
IEAKLQALEATCKSLEEKLDLVTNKQHSPIQVPMVAGSPLGATQTCNKVRCVVPQTTVILNNDRQNAIVA
KMEDPLSNRAPDSLENIISNAVPGRRQNTIVVKVPGQDDSHNEDGESGSEASDSVSNCGQPGSQNIGSNV
TLITLNSEEDYPNGTWLGDENNPEMRVRCAIIPSDMLHISTNCRTAEKMALTLLDYLFHREVQAVSNLSG
QGKHGKKQLDPLTIYGIRCHLFYKFGITESDWYRIKQSIDSKCRTAWRRKQRGQSLAVKSFSRRTPSSSS
YSASETMMGTPPPTSELQQSQPQALHYALANAQQVQIHQIGEDGQVQVGHLHIAQVPQGEQVQITQDSEG
NLQIHHVGQDGQSWGLCQNPIPVSGDSVAQANPSQLWPLGGDTLDLPAGNEMIQVLQGAQLIAVASSDPA
ATGVDGSPLQGSDIQVQYVQLAPVSDHTAAAQTAEALQPTLQPDMQLEHGAIQIQ

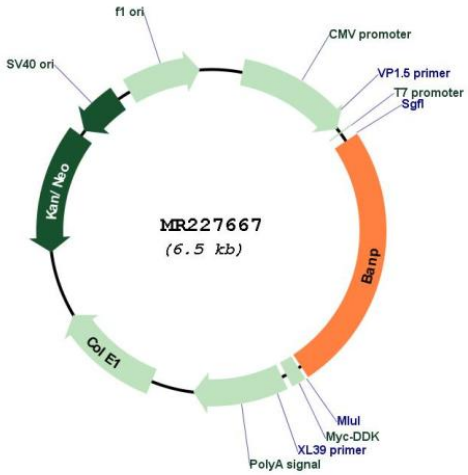
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001110100
ORF Size:	1635 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:	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_001110100.2
RefSeq Size:	5446 bp
RefSeq ORF:	1638 bp
Locus ID:	53325
UniProt ID:	Q8VBU8
Cytogenetics:	8 70.82 cM
MW:	59.8 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]