

Product datasheet for **MG227667**

Banp (NM_001110100) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Banp (NM_001110100) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Banp
Synonyms:	AA408158; SMAR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG227667 representing NM_001110100
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGTCAGAGCAGACCTGGCGGATGTGGTTAGATTGCAGTGAAGACCTGAGCCCTGATCACCCAG
 TTGTTTTGGAGAATCATGTCGTGACAGATGATGATGAACCTGCCTTGAAGCGCCAGCGACTAGAGATCAA
 TTGCCAGGACCCCTCTATAAAGTCTTCTGTACTCTATTAACCAGACGATATGTTTGCGGTTGGATAGC
 ATTGAGGCCAAGCTGCAAGCTCTCGAGGCCACTTGCAAATCTCTGGAAGAGAAGCTAGACCTGGTACCCA
 AATAACAGCACAGTCCCATCCAGGTCCCATGGTGGCAGGTTCCCCTACTGGCGCCACCCAGACCTGCAA
 CAAAGTGCATGCGTCTCCCCAGACTACAGTAATACTCAACAATGATCGGCAGAACGCCATTGTAGCC
 AAGATGGAAGACCCATTGAGCAACAGGGCACCGGATTCCCTGGAAAATATCATTAGCAACGCTGTTCTGT
 GCGTTCGGCAGAACACCATCGTGGTAAAGTGCCTGGTCAGGACGACAGCCACAACGAAGATGGGGAGAG
 CGGGTCAGAGGCCAGTACTCCGTGTCTAACTGTGGCCAGCCAGGAAGCCAGAACATTGGAAGCAACGTC
 ACACTCATCACCTGAACTCCGAAGAGGACTATCCCAATGGCACCTGGCTGGGCGATGAGAATAACCTG
 AGATGCGGGTACGCTGTGCCATCATCCCTTCCGACATGTTGCACATCAGACCAACTGTCGACCGGCCGA
 GAAGATGGCGCTGACACTGCTGGACTACCTGTTCCACCGTGAGGTGCAGGCTGTGTCCAACCTTGTCCGGC
 CAGGGCAAGCACGGGAAGAAGCAGCTGGACCCCTCACCATCTACGGCATCCGGTGTACCTCTTCTATA
 AATTTGGAATCACGGAATCTGACTGGTATCGGATCAAGCAGAGCATTGACTCCAAGTGCCGGACAGCCTG
 GCGGGGAAGCAGCGAGGCCAGAGCCTGGCGGTCAAGAGCTTCTCTCGGAGGACCCATCCTCATCTCT
 TACAGTGCCTCAGAGACCATGATGGGAACCCCTCTCCACCAGTGAGCTACAGCAGTACAGCCACAGG
 CCCTACACTACGCCCTGGCCAACGCCAGCAGGTCAGATCCACCAGATTGGGGAGGATGGACAGGTGCA
 AGTAGGCCACCTCCACATTGCCAGGTGCCTCAAGGGGAGCAGGTGCAGATCACACAGGACAGCGAGGGC
 AATCTGCAGATCCATCATGTGGTCCAGGATGGCCAGTCTGTGGGCTGTGCCAGAATCCATTCTGTCA
 GCGGTGACTCAGTGGCCAGGCTAATCCCTCCCAGCTTTGGCCTCTGGGAGGAGACACACTTGATCTGCC
 TGCTGGAATGAAATGATCCAGTACTGCAGGCTGCTCAGCTCATAGCCGTGGCCTCTTCCAGACCCTGCT
 GCTACAGGAGTAGATGGTTCGCTCTCCAGGGCAGTGACATTGAGTTTCAATGTCAGCTGGCGCCTG
 TGAGTGACCACACAGCCGACGCGAGCCGAGAGGCCCTGCAGCCACTCTGCAGCCCGACATGCAGCT
 TGAACATGGGGCCATCCAGATCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG227667 representing NM_001110100
 Red=Cloning site Green=Tags(s)

MMSEQDLADVQIAVEDLSPDHPVVLENHVVTDDEPALKRQRLEINCQDPSIKSFLYSINQTI CLR LDS
 IEAKLQALEATCKSLEEKLDLVTNKQHSPIQVPMVAGSPLGATQTCNKVRCVVPQTTVILNDRQNAIVA
 KMEDPLSNRAPDSLENIISNAVPGRRQNTIVVKVPGQDDSHNEDGESGSEASDSVSNCGQPGSQNIGSNV
 TLITLNSEEDYPNGTWLGDENPEMRVRCIIPSDMLHISTNCR TAEKMAL TLLDYLFHREVQAVSNLSG
 QGKHGKKQLDPLTIYGIRCHLFYKFGITESDWYRIKQSIDSKRTAWRRKQRGQSLAVKSF SRTPSSSS
 YSASETMMGTPPPTSELQSQPQALHYALANAQQVQIHQIGEDGQVQVGHHLHIAQVPQGEVQITQDSEG
 NLQIHHVGDGQSWGLCQNPPIVSGDSVAQANPSQLWPLGGDTLDLPAGNEMIQVLQGAQLI AVASDP
 ATGVGDGSP LQGS DIQVQYVQLAPVSDHTAAAQTAEALQPTLQPDMLQLEHGAIQIQ

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


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

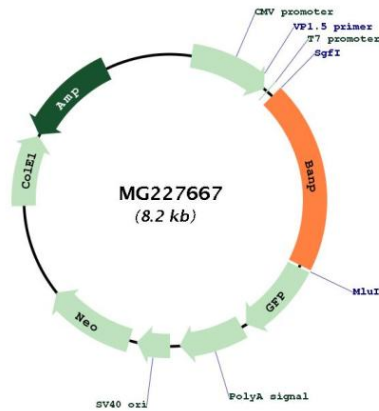
Locus ID: 53325

UniProt ID: [Q8VBU8](#)

Cytogenetics: 8 70.82 cM

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 MG227667