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Product datasheet for RC230201

BANP (NM_001173542) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BANP (NM_001173542) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BANP
Synonyms:	BEND1; SMAR1; SMARBP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC230201 representing NM_001173542
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGTCGGAACACGACCTGGCCGATGTGGTTCAGATTGCAGTGGAAGACCTGAGCCCTGACCACCCAG
TTGTTTTGGAGAATCATGTAGTGACAGATGAAGACGAACCTGCTTTGAAACGCCAGCGACTAGAAATCAA
TTGCCAGGATCCATCTATAAAGTCATTCCTGTATTCCATCAACCAGACAATCTGCTTGCGGTTGGATAGC
ATTGAAGCCAAATTGCAAGCCCTGGAGGCTACTTGTAAATCCTTAGAAGAAAAGCTGGATCTGGTCACGA
ACAAGCAGCACAGCCCCATCCAGGTCCCCATGGTGGCCGGCTCCCCTCTCGGGGCAACCCAGACGTGCAA
CAAAGTGCGATGCGTCGTCCCCCAGACTACAGTAATACTCAACAATGATCGGCAGAACGCCATTGTAGCC
AAGATGGAAGACCCCTTGAGCAACAGGGCACCGGATTCCCTGGAAAATGTCATTAGCAACGCTGTGCCTG
GGCGTCGGCAGAACACCATTGTGGTGAAGGTGCCGGGCCAAGAAGACAGCCACCACGAGGACGGGGAGAG
CGGCTCGGAGGCCAGCGACTCTGTGTCCAGCTGTGGGCAGGCGGGCAGTCAGAGCATCGGGAGCAACGTC
ACGCTCATCACCCTGAACTCGGAAGAGGACTACCCCAATGGCACCTGGCTGGGCGACGAGAACAACCCCG
AGATGCGGGTACGCTGCGCCATCATCCCCTCCGACATGCTGCACATCAGCACCAACTGCCGCACGGCCGA
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CAGGGCAAGCACGGGAAGAAGCAGCTGGACCCGCTCACCATCTACGGCATCCGGTGTCACCTTTTCTATA
AATTTGGCATCACAGAATCCGACTGGTACCGAATCAAGCAGAGCATCGACTCCAAGTGCCGCACGGCGTG
GCGGCGCAAGCAGCGGGGCCAGAGCCTGGCGGTCAAGAGCTTCTCGCGGAGAACGCCCAACTCGTCCTCC
TACTGCCCTTCAGAGCCGATGATGAGCACCCCACCTCCTGCCAGCGAGCTCCCGCAGCCACAGCCGCAGC
CGCAGGCCCTGCACTACGCGCTGGCCAACGCACAGCAGGTGCAGATCCACCAGATCGGAGAAGACGGACA
GGTGCAAGTAATCCCACAGGGACACCTCCACATCGCCCAGGTGCCGCAGGGGGAGCAAGTCCAGATCACG
CAGGACAGCGAGGGCAACCTCCAGATCCATCACGTGGGGCAGGACGGTCAGGTGCTGCAGGGTGCACAGC
TGATCGCCGTGGCCTCCTCGGACCCCGCGGCGGCGGGCGTGGATGGGTCGCCACTCCAGGGCAGCGACAT
CCAGGTTCAGTACGTGCAGCTGGCGCCAGTGAGTGACCACACGGCCGGGGCACAGACGGCCGAAGCCCTG
CAGCCCACGCTACAGCCGGAGATGCAGCTCGAGCACGGGGCCATCCAGATTCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230201 representing NM_001173542
Red=Cloning site Green=Tags(s)

MMSEHDLADVVQIAVEDLSPDHPVVLENHVVTDEDEPALKRQRLEINCQDPSIKSFLYSINQTICLRLDS
IEAKLQALEATCKSLEEKLDLVTNKQHSPIQVPMVAGSPLGATQTCNKVRCVVPQTTVILNNDRQNAIVA
KMEDPLSNRAPDSLENVISNAVPGRRQNTIVVKVPGQEDSHHEDGESGSEASDSVSSCGQAGSQSIGSNV
TLITLNSEEDYPNGTWLGDENNPEMRVRCAIIPSDMLHISTNCRTAEKMALTLLDYLFHREVQAVSNLSG
QGKHGKKQLDPLTIYGIRCHLFYKFGITESDWYRIKQSIDSKCRTAWRRKQRGQSLAVKSFSRRTPNSSS
YCPSEPMMSTPPPASELPQPQPQPQALHYALANAQQVQIHQIGEDGQVQVIPQGHLHIAQVPQGEQVQIT
QDSEGNLQIHHVGQDGQVLQGAQLIAVASSDPAAAGVDGSPLQGSDIQVQYVQLAPVSDHTAGAQTAEAL
QPTLQPEMQLEHGAIQIQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8064_b07.zip

Restriction Sites: SgfI-MluI

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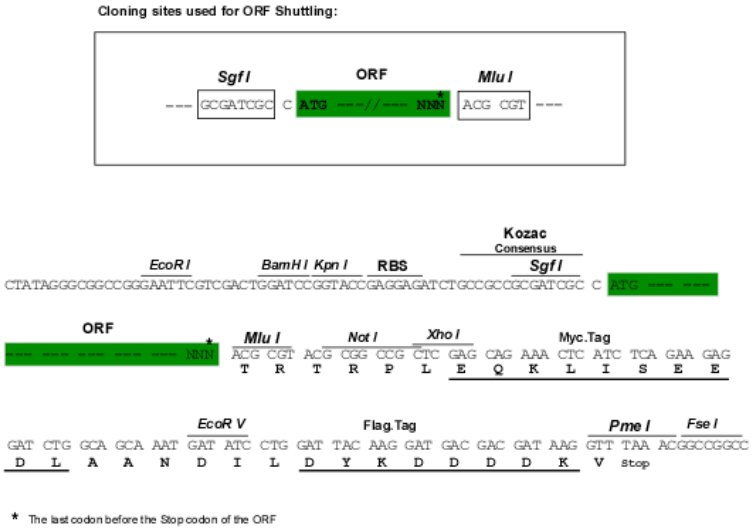
Cloning Scheme:



ACCN: NM_001173542

ORF Size: 1524 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001173542.1, NP_001167013.1

RefSeq ORF: 1527 bp

Locus ID: 54971

UniProt ID: Q8N9N5

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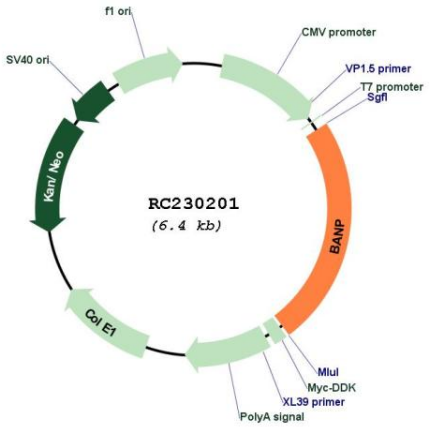
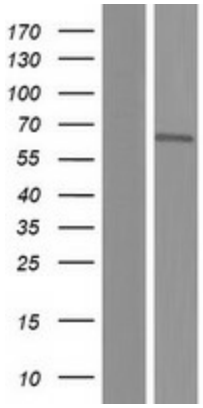
Cytogenetics:	16q24.2
MW:	56 kDa
Gene Summary:	This gene encodes a protein that binds to matrix attachment regions. The protein forms a complex with p53 and negatively regulates p53 transcription, and functions as a tumor suppressor and cell cycle regulator. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2010]

Product images:



Circular map for RC230201



Western blot validation of overexpression lysate (Cat# [LY433201]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC230201 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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