

## Product datasheet for **RG203448**

### **BANP (NM\_017869) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BANP (NM_017869) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BANP
Synonyms:	BEND1; SMAR1; SMARBP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG203448 representing NM\_017869  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATGTCGGAACACGACCTGGCCGATGTGGTTTCAGATTGCAGTGAAGACCTGAGCCCTGACCACCCAG  
 TTGTTTTGGAGAATCATGTAGTGACAGATGAAGACGAACCTGCTTTGAAACGCCAGCGACTAGAAATCAA  
 TTGCCAGGATCCATCTATAAAGTCATTCTGTATTCCATCAACCAGACAATCTGCTTGCAGTTGGATAGC  
 ATTGAAGCAAATGCAAGCCCTGGAGGCTACTTGTAATCCTTAGAAGAAAAGCTGGATCTGGTCACGA  
 ACAAGCAGCACAGCCCCATCCAGGTCCCATGGTGGCCGGCTCCCCTCTCGGGGCAACCCAGACGTGCAA  
 CAAAGTGCATGCGCTGTGCCTGGGCGTCGGCAGAACACCATTGTGGTGAAGGTGCCGGGCAAGAAGAC  
 AGCCACCACGAGGACGGGAGAGCGGCTCGGAGGCCAGCGACTCTGTGTCCAGCTGTGGCAGGCGGGCA  
 GTCAGAGCATCGGAGCAACGTACGCTCATCACCTGAACTCGGAAGAGGACTACCCCAATGGCACCTG  
 GCTGGGCGACGAGAACAACCCCGAGATGCGGGTACGCTGCGCCATCATCCCCTCCGACATGCTGCACATC  
 AGCACCAACTGCCGCACGGCTGAGAAGATGGCGCTAACGCTGCTGGACTACCTCTCCACCAGGAGGTGC  
 AGGCTGTGTCCAACCTCTCGGGGAGGGCAAGCACGGGAAGAAGCAGCTGGACCCGCTCACCATCTACGG  
 CATCCGGTGTACCTTTTCTATAAATTTGGCATCACAGAAATCCGACTGGTACCGAATCAAGCAGAGCATC  
 GACTCCAAGTGCCGCACGGCGTGGCGGCCAAGCAGCGGGGCCAGAGCCTGGCGGTCAAGAGCTTCTCGC  
 GGAGAAGCCCAACTCGTCTCTACTGCCCTTACAGAGCCGATGATGAGCACCCACCTCCTGCCAGCGA  
 GCTCCCGCAGCCACAGCCGACGCCGAGGCCCTGCACTACGCGCTGGCCAACGCACAGCAGGTGCAGATC  
 CACCAGATCGGAGAAGACGGACAGGTGCAAGTAATCCACAGGGACACCTCCACATCGCCAGGTGCCGC  
 AGGGGGAGCAAGTCCAGATCACGCAGGACGAGGGCAACCTCCAGATCCATCACGTGGGCGAGGACCG  
 TCAGGTGCTGCAGGGTGCACAGCTGATCGCCGTGGCCTCCTCGGACCCCGCGGGCGGGCGTGGATGGG  
 TGCCACTCCAGGGCAGGACATCCAGTTTCAGTACGTGACGCTGGCGCCAGTGTGACACACGGCCG  
 GGGCACAGACGGCCGAGCCCTGCAGCCACGCTACAGCCGAGATGCAGCTCGAGCACGGGGCCATCCA  
 GATTCAG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG203448 representing NM\_017869  
 Red=Cloning site Green=Tags(s)

MMSEHDLADVQIAVEDLSPDHPVLENHVVTDEDEPALKRQRLEINCQDPSIKSFLYSINQTI CLR LDS  
 IEAKLQALEATCKSLEEKLDLVTNKQHSPIQVPMVAGSPLGATQTCNKVRCVPGRRQNTIVVKVPGQED  
 SHHEDGESGSEASDSVSSCGQAGSQSIGSNVTLITLNSEEDYPNGTWLGDENNPENRVRCAIIPSDMLHI  
 STNCRATAEKMAL TLLDYL FHVREAVSNLSGQGHGKQLDPLTIYGIRCHLFYKFGITESDWYRIKQSI  
 DSKCRTAWRRKQRGQSLAVKSFRRTPNSSSYCPSEPMSTPPASELPQPQPQALHYALANAQVQVI  
 HQIGEDGQVQVIPQGH LHAQVPQGEVQITQDSEGNLQIHHVGDGQVLQGAQLI AVASSDPAAGVVDG  
 SPLQGS DIQVQYVQLAPVSDHTAGAQTAELQPTLQPEMQL EHGAIQIQ

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_017869

**ORF Size:** 1407 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\\_017869.3](#), [NP\\_060339.2](#)

**RefSeq Size:** 2230 bp

**RefSeq ORF:** 1410 bp

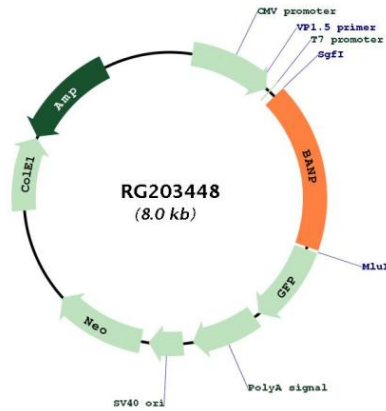
**Locus ID:** 54971

**UniProt ID:** [Q8N9N5](#)

**Cytogenetics:** 16q24.2

**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 RG203448