

## Product datasheet for **RG212927**

### **BANP (NM\_079837) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BANP (NM_079837) 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:**

>RG212927 representing NM\_079837  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATGTCGGAACACGACCTGGCCGATGTGGTTACAGATTGCAGTGAAGACCTGAGCCCTGACCACCCAG  
 TTGTTTTGGAGAATCATGTAGTGACAGATGAAGACGAACCTGCTTTGAAACGCCAGCGACTAGAAAATCAA  
 TTGCCAGGATCCATCTATAAAGTCATTCCTGTATTCCATCAACCAGACAATCTGCTTGCGGTTGGATAGC  
 ATTGAAGCCAAATTGCAAGCCCTGGAGGCTACTTGTAATCCTTAGAAGAAAAGCTGGATCTGGTCACGA  
 ACAAGCAGCACAGCCCCATCCAGGTCCCATGGTGGCCGGCTCCCTCTCGGGGCAACCCAGACGTGCAA  
 CAAAGTGCATGCGCTGTGCCTGGGCGTCGGCAGAACACCATTGTGGTGAAGGTGCCGGGCAAGAAGAC  
 AGCCACCACGAGGACGGGAGAGCGGCTCGGAGGCCAGCGACTCTGTGTCCAGCTGTGGCAGCGGGCA  
 GTCAGAGCATCGGAGCAACGTACGCTCATCACCTGAACTCGAAGAGGACTACCCCAATGGCACCTG  
 GCTGGGCGACGAGAACAACCCCGAGATGCGGGTACGCTGCGCCATCATCCCTCCGACATGCTGCACATC  
 AGCACCAACTGCCGCACGGCCGAGAAGATGGCGCTCACGCTGCTGGACTACCTCTCCACCAGGAGGTGC  
 AGGCTGTGTCCAACCTCTCGGGGAGGGCAAGCACGGGAAGAAGCAGCTGGACCCGCTCACCATCTACGG  
 CATCCGGTGTACCTTTTCTATAAATTTGGCATCACAGAAATCCGACTGGTACCGAATCAAGCAGAGCATC  
 GACTCCAAGTGCCGCACGGCGTGGCGGCCAAGCAGCGGGGCCAGAGCCTGGCGGTCAAGAGCTTCTCGC  
 GGAGAACGCCAACTCGTCTCTACTGCCCTTACAGCCGATGATGAGCACCCACCTCCTGCCAGCGA  
 GCTCCCGCAGCCACAGCCGACGCCGAGGCCCTGCACTACGCGCTGGCCAACGCACAGCAGGTGCAGATC  
 CACCAGATCGGAGAAGACGGACAGGTGCAAGTAATCCACAGGGACACCTCCACATCGCCAGGTGCCCG  
 AGGGGAGCAAGTCCAGATCACGACGACAGCGAGGGCAACCTCCAGATCCATCACGTGGGCGACCGG  
 TCAGTTCTAGAGGCCACCCGCATCCCTGCCTCCTGGCCCATCCGCTTCAAAGCCAGCAGTGGCCAG  
 GTGCTGCAGGGTGCACAGCTGATCGCCGTGGCCTCCTCGACCCCGCGGGCGGGCGTGGATGGGTGCG  
 CACTCCAGGGCAGCGACATCCAGGTTAGTACGTGCAGCTGGCGCCAGTGAAGTACCACACGCGCCGGGC  
 ACAGACGGCCGAAGCCCTGCAGCCACGCTACAGCCGGAGATGCAGCTCGAGCACGGGGCCATCCAGATT  
 CAG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG212927 representing NM\_079837  
 Red=Cloning site Green=Tags(s)

MMSEHDLADVQIAVEDLSPDHPVLENHVVTDEDEPALKRQRLEINCQDPSIKSFLYSINQTI CLR LDS  
 IEAKLQALEATCKSLEEKLDLVTNKQHSPIQVPMVAGSPLGATQTCNKVRCVAVPGRRQNTIVVKVPGQED  
 SHHEDGESGSEASDSVSSCGQAGSQSIGSNVTLITLNSEEDYPNGTWLGDENNPENRVRCAIIPSDMLHI  
 STNCRATAEKMALTLLDYLFHREVQAVSNLSGQKHKKQLDPLTIYGIRCHLFYKFGITESDWYRIKQSI  
 DSKCRTAWRRKQRGQSLAVKFSRRTPNSSYCPSEPMSTPPPASELPQPQPQALHYALANAQQVQI  
 HQIGEDGQVQVIPQGH LIAQVPQGEVQVITQDSEGNLQIHHVQDQQLLEATRIPCLLAPSVFKASSGQ  
 VLQGAQLI AVASSDPAAGVDGSPLQGS DIQVYVQLAPVSDHTAGAQTAEALQPTLQPEMQLEHGAIQI  
 Q

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul

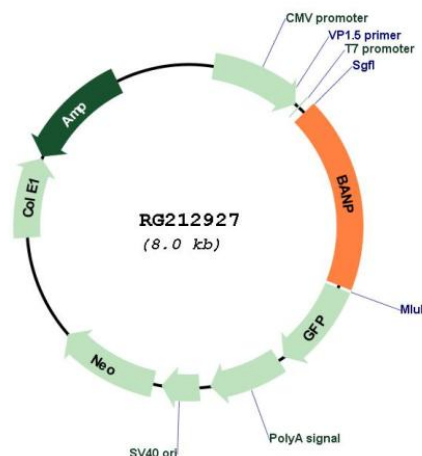
**Cloning Scheme:**

Cloning sites used for ORF Shutting:



<i>EcoRI</i>	<i>BamHI</i>	<i>KpnI</i>	<b>RBS</b>	<b>Kozac Consensus</b>	<i>SgfI</i>	<i>AscI</i>
CTATAGGGCGGCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT						
<i>HindIII</i>	<i>NheI</i>	<i>RsrII</i>	<i>MluI</i>	<i>NotI</i>	<i>XhoI</i>	<b>GFP Tag</b>
CAAGCTTAACTAGCTAGCGGACCG	ACG CGT	ACG CGG CCG	CTC GAG	ATG GAG AGC GAC	---	---
	T R T R P L E			M E S D	-	-
		<i>PmeI</i>	<i>FseI</i>			
---	GAA GAA AGA GTT TAA	ACGGCCGGCCGGGAGCT				
	- - E E R V	Stop				

## Plasmid Map:



ACCN: NM\_079837

ORF Size: 1473 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\\_079837.3](#)

**RefSeq Size:** 2296 bp

**RefSeq ORF:** 1476 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]