

Product datasheet for **RC203270**

BANF1 (NM_003860) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BANF1 (NM_003860) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: BANF1
Synonyms: BAF; BCRP1; D14S1460; NGPS
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC203270 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACAACCTCCCAAAGCACCGAGACTTCGTGGCAGAGCCCATGGGGGAGAAGCCAGTGGGGAGCCTGG
CTGGGATTGGTGAAGTCTGGGCAAGAAGCTGGAGGAAAGGGTTTTGACAAGGCCTATGTTGTCTTGG
CCAGTTTCTGGTGCTAAAGAAAGATGAAGACCTTCCGGGAATGGCTGAAAGACACTTGTGGCGCCAAC
GCCAAGCAGTCCCGGACTGCTTCGGATGCCTTCGAGAGTGGTGCACGCCTTCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203270 protein sequence
Red=Cloning site Green=Tags(s)
MTTSQKHRDFVAEPMGEKPVGSLAGIGEVLGKKLEERGFDKAYVVLGQFLVLKKDEDLFREWLKDTCGAN
AKQSRDCFGLREWCD AFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6051_a05.zip

Restriction Sites: Sgfl-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_003860

ORF Size: 267 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.

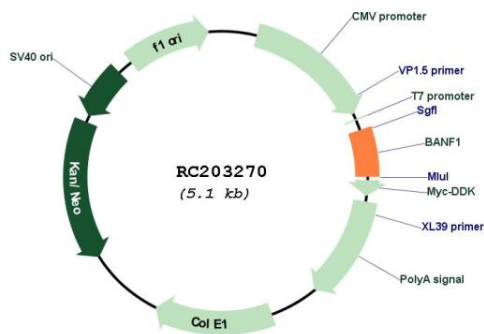
RefSeq: [NM_003860.4](#)

RefSeq Size: 1179 bp

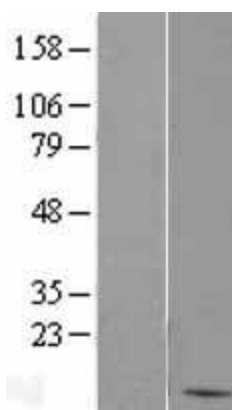
RefSeq ORF: 270 bp
 Locus ID: 8815
 UniProt ID: [O75531](#)
 Cytogenetics: 11q13.1
 MW: 10.1 kDa

Gene Summary: The protein encoded by this gene was first identified by its ability to protect retroviruses from intramolecular integration and therefore promote intermolecular integration into the host cell genome. The protein forms a homodimer which localizes to both the nucleus and cytoplasm and is specifically associated with chromosomes during mitosis. This protein binds to double stranded DNA in a non-specific manner and also binds to LEM-domain containing proteins of the nuclear envelope. This protein is thought to facilitate nuclear reassembly by binding with both DNA and inner nuclear membrane proteins and thereby recruit chromatin to the nuclear periphery. Alternative splicing results in multiple transcript variants encoding the same protein.[provided by RefSeq, Jan 2009]

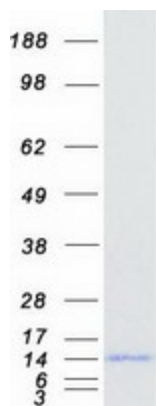
Product images:



Circular map for RC203270



Western blot validation of overexpression lysate (Cat# [LY428445]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC227624] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified BANF1 protein (Cat# [TP303270]). The protein was produced from HEK293T cells transfected with BANF1 cDNA clone (Cat# RC203270) using MegaTran 2.0 (Cat# [TT210002]).