

Product datasheet for **RC203147**

BNIP1 (NM_001205) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | BNIP1 (NM_001205) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | BNIP1 |
| Synonyms: | NIP1; SEC20; TRG-8 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC203147 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCTCCCCAAGACGTCCACGTCCGGATCTGTAACCAAGAGATTGTCAAATTTGACCTGGAGGTGA
AGGCGCTTATTCAGGATATCCGTGATTGTTAGGACCTTAAGTGCTCTTACTGAACTGAATACTAAAGT
AAAAGAGAAATTTCAACAGTTGCGTCACAGAATACAGGACCTGGAGCAGTTGGCTAAAGAGCAAGACAAA
GAATCAGAGAAACAATCTACTCCAGGAAGTGGAGAATCACAAAAGCAGATGCTCAGCAATCAGGCCT
CATGGAGGAAAGCTAATCTCACCTGCAAAATTGCAATCGACAATCTAGAGAAAGCAGAACTCTTCAGGG
AGGAGATCTCTTAAGGCAAAGGAAAACCAAAAGAGAGCCTGGCCCAGACATCCAGTACCATCACTGAG
AGCCTCATGGGGATCAGCAGGATGATGGCCAGCAGGTCCAGCAGAGCGAGGAGGCCATGCAGTCTCTAG
TCACTTCTTCACGAACGATCCTGGATGCAAAATGAAGAATTTAAGTCCATGTGGGACCATCCAGCTGGG
CCGGAAGCTTATCACAAAATACAATCGCCGGGAGCTGACGGACAAGCTTCTCATCTTCCTTGCCTAGCC
CTGTTTCTTGCTACGGTCCTCTATATTGTGAAAAAGCGGCTCTTCCATTTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203147 protein sequence
 Red=Cloning site Green=Tags(s)

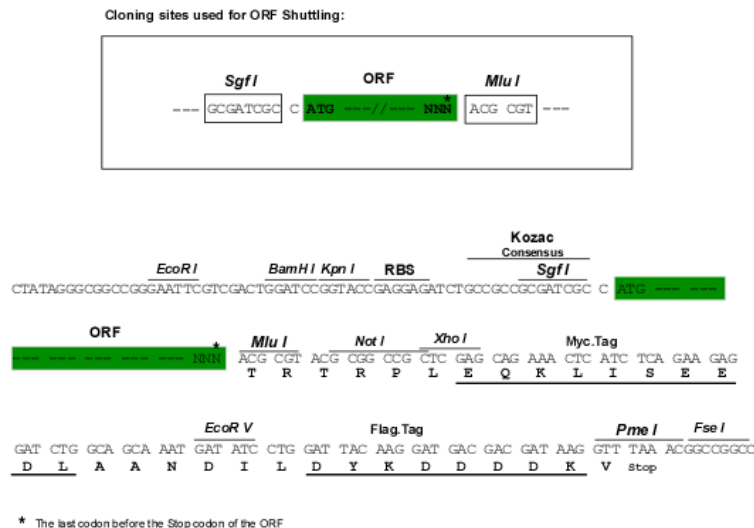
MAAPQDVHVRICNQEIIVKFDLEVKALIQDIRDCSGPLSALTELVKKEKFQQLRHRIQDLEQLAKEQDK
 ESEKQLLLQEVNHKKQMLSNQASWRKANLTCKIAIDNLEKAELLQGGDLLRQRKTTKESLAQTSSSITE
 SLMGISRMMAQQVQQSEEMQSLVTSSRTILDANEEFKMSGTIQLGRKLITKYNRRELTDKLLIFLALA
 LFLATVLYIVKKRLFPFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6146_b03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001205

ORF Size: 684 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_001205.3](#)

RefSeq Size: 1259 bp

RefSeq ORF: 687 bp

Locus ID: 662

UniProt ID: [Q12981](#)

Cytogenetics: 5q35.1

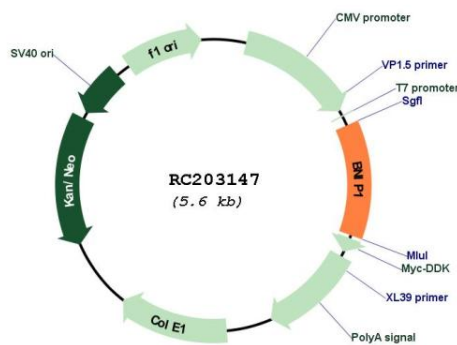
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: SNARE interactions in vesicular transport

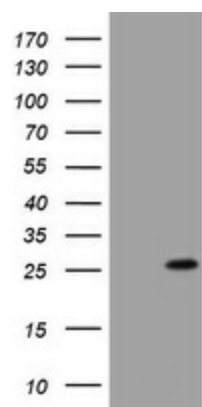
MW: 26.1 kDa

Gene Summary: This gene is a member of the BCL2/adenovirus E1B 19 kd-interacting protein (BNIP) family. It interacts with the E1B 19 kDa protein, which protects cells from virally-induced cell death. The encoded protein also interacts with E1B 19 kDa-like sequences of BCL2, another apoptotic protector. In addition, this protein is involved in vesicle transport into the endoplasmic reticulum. Alternative splicing of this gene results in four protein products with identical N- and C-termini. [provided by RefSeq, Mar 2011]

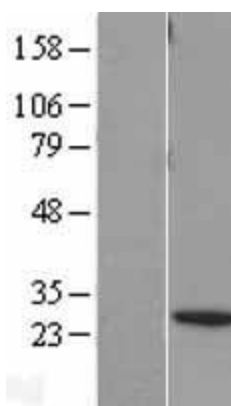
Product images:



Circular map for RC203147



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY BNIP1 (Cat# RC203147, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-BNIP1 (Cat# [TA802188]). Positive lysates [LY400484] (100ug) and [LC400484] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY400484]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203147 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).