

Product datasheet for RC224932

BNIP1 (NM_013978) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BNIP1 (NM_013978) 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: >RC224932 representing NM_013978
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGCTCCCCAAGACGTCCACGTCCGGATCTGTAACCAAGAGATTGTCAAATTTGACCTGGAGGTGA
 AGGCGCTTATTCAGGATATCCGTGATTGTTTCAGGACCTTAAGTGCTTCTACTGAACTGAATACTAAAGT
 AAAAGAGAAATTTCAACAGTTGCGTCACAGAATACAGGACCTGGAGCAGTTGGCTAAAGAGCAAGACAAA
 GAATCAGAGAAACAATCTACTCCAGGAAGTGGAGAATCACAAAAGCAGATGCTCAGGAAAACACCA
 AAGAGAGCCTGGCCAGACATCCAGTACCATCACTGAGAGCCTCATGGGGATCAGCAGGATGATGGCCCA
 GCAGGTCCAGCAGAGCGAGGAGGCCATGCAGTCTCTAGTCACTTCTTACGAACGATCCTGGATGCAAA
 GAAGAATTTAAGTCCATGTCGGGCCACATCCAGCTGGGCCGGAAGCTTATCACAAAATACAATCGCCGGG
 AGCTGACGGACAAGCTTCTCATCTTCTTTCGCTACGCCTGTTTCTTGCTACGGTCTCTATATTGTGAA
 AAAGCGGCTCTTCCATTTTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224932 representing NM_013978
 Red=Cloning site Green=Tags(s)

MAAPQDVHVRICNQEIVKFDLEVKALIQDIRDCSGPLSALTELNTKVKEKFQQLRHRIQDLEQLAKEQDK
 ESEKQLLLQEVENHKKQMLRKTTKESLAQTSSTITESLMGISRMMQQVQSQSEAMQSLVTSRRTILDAN
 EEFKSMSTIQLGRKLIITKYNRRELTDKLLIFLALRFLATVLYIVKKRLEPFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013978

ORF Size: 582 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_013978.1](#), [NP_053581.1](#)

RefSeq Size: 722 bp

RefSeq ORF: 585 bp

Locus ID: 662

UniProt ID: [Q12981](#)

Cytogenetics: 5q35.1

Domains: Sec20

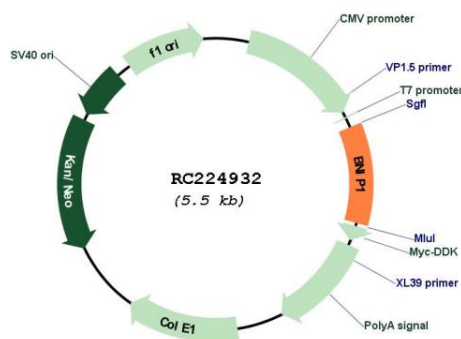
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: SNARE interactions in vesicular transport

MW: 22.2 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 RC224932