

Product datasheet for **RG224830**

BNIP1 (NM_013979) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BNIP1 (NM_013979) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: BNIP1
Synonyms: NIP1; SEC20; TRG-8
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG224830 representing NM_013979
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCTCCCCAAGACGTCCACGTCCGGATCTGTAACCAAGAGATTGTCAAATTTGACCTGGAGGTGA
AGGCGCTTATTCAGGATATCCGTGATTGTTGAGGACCCCTAAGTGCTCTTACTGAACTGAATACTAAAGT
AAAAGAGAAATTTCAACAGTTGCGTCACAGAATACAGCCAGTTCTCTATCAAAGGCATTTATTTGGACT
GCTTCCACATTTTTTTTTAAGCTAACTTATCCCTGACAGACTTTCTTCAACTCAGCATGACTTCACT
CTCCAACCTACACCTGTTACCTTCAGTGACCTGGAGCAGTTGGCTAAAGAGCAAGACAAAGAATCAGAGAA
ACAACCTTCTACTCCAGGAAGTGGAGAATCACAAAAGCAGATGCTCAGCAATCAGGCCTCATGGAGGAAA
GCTAATCTCACCTGCAAAATTGCAATCGACAATCTAGAGAAAGCAGAAGCTTCTCAGGGAGGAGATCTCT
TAAGGCAAAGGAAAACCACAAAGAGAGCCTGGCCAGACATCCAGTACCATCACTGAGAGCCTCATGGG
GATCAGCAGGATGATGGCCAGCAGGTCCAGCAGAGCGAGGAGGCCATGCAGTCTCTAGTCACTTCTTCA
CGAACGATCCTGGATGCAAAATGAAGATTTAAGTCCATGTGCGGCACCATCCAGCTGGGCCGGAAGCTTA
TCACAAAATACAATCGCCGGGAGCTGACGGACAAGCTTCTCATCTTCTTGGCTACGCCTGTTTCTTGC
TACGGTCTCTATATTGTGAAAAAGCGGCTCTTTCCATTTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG224830 representing NM_013979
 Red=Cloning site Green=Tags(s)

MAAPQDVHVRICNQEIVKFDLEVKALIQDIRDCSGPLSALTELNTKVKEKFQQLRHRIQPVLVYQRAFIWT
 ASTFFFKLTYSLTDFSSQTHDFNSPTTPVTFSDLEQLAKEQDKSEKQLLLQEVENHKKQMLSNQASWRK
 ANLTCKIAIDNLEKAELLQGGDLLRQRKTTKESLAQTSSITITESLMGISRMMAAQQVQQSEAMQSLVTSS
 RTILDANEEFKSMSTIQLGRKLITKYNRRELTDKLLIFLALRLFATVLYIVKKRFLPFL

TRTRPLE - GFP Tag - V

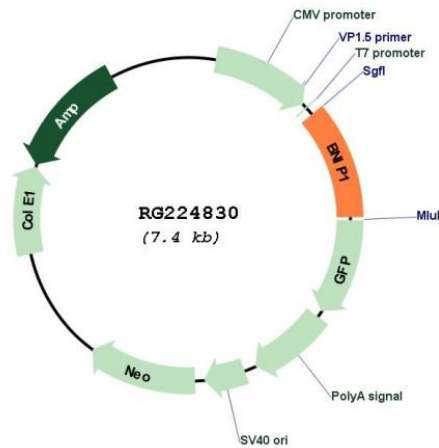
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_013979

ORF Size: 813 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:	<ol style="list-style-type: none">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_013979.1 , NP_053582.1
RefSeq Size:	1247 bp
RefSeq ORF:	816 bp
Locus ID:	662
UniProt ID:	Q12981
Cytogenetics:	5q35.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	SNARE interactions in vesicular transport
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]