

Product datasheet for **RG200377**

BNIP2 (NM_004330) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BNIP2 (NM_004330) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BNIP2
Synonyms:	BNIP-2; NIP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200377 representing NM_004330 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGGTGTGGAACCTAAAGAAGATGGCAAGATGAAGATTTCCGATACCTTTACCAGAAGATGATA
GTATTGAAGCAGATATACTAGCTATAACTGGACCAGAGGACCAGCCTGGCTCACTAGAAGTTAATGGAAA
TAAAGTGAGAAAGAACTAATGGCTCCAGACATTAGCCTGACACTGGATCCTAGTGATGGCTCTGTATTG
TCAGATGATTTGGATGAAAGTGGGAGATTGACTTAGATGGCTTAGACACACCGTCAGAGAATAGTAATG
AGTTTGAGTGGGAAGATGATCTTCCAAAACCAAGACTACTGAAGTAATTAGGAAAGGCTCAATTACTGA
ATACACAGCAGCAGAGGAAAAAGAAGATGGACGACGCTGGCGTATGTTTCAGGATTGGAGAACAGGACCAC
AGGTTTATGAAGCAATTGAACCTATAAAAAAGTTATCAGCCATGGGGATATTATGGGGATGGAT
TAAATGCCATTGTTGTGTTGCTGTCTGTTTCATGCCTGAAAGTAGTCAGCCTAACTATAGATACCTGAT
GGACAATCTTTTTAAATATGTTATTGGCACTTTGGAGCTATTAGTAGCAGAAAACTACATGATAGTTTAT
TTAAATGGTGCAACAACCTGAAGAAAAATGCCAGTCTGGGATGGCTCAGGAAATGTTATCAGCAAAATTG
ATAGAAGTTACGAAAAATCTAAAATCCCTAATCATTGTACATCCTTCTGGTTTATCAGAACACTTCT
GGCTGTTACAAGACCATTTATTAGCTCGAAATTCAGCCAAAAAATTAGATACGTGTTAATTTGGCAGAA
CTAGCAGAACTTGTCCCATGGAATACGTTGGCATACCAGAATGCATAAAACAAGTTGATCAAGAACTTA
ATGGAAAAAAGATGAACCGAAAAATGAACAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200377 representing NM_004330
 Red=Cloning site Green=Tags(s)

MEGVELKEEWQDEDFPIPLPEDDSIEADILAITGPEDQPGSLEVNGNKVRKKLMAPDISLTLDPDSDGSVL
 SDDLDESGEIDLGLDTPSENSNEFEWEDDLPKPKTTTEVIRKGSITEYTAEEKEDGRRWRMFRIGEODH
 RVDMKAIEPYKKVISHGGYYGDGLNAIVVFAVCFMPESSQPNRYRLMDNLFKYVIGTLELLVAENYMIIV
 LNGATRRKMPSLGWLKRCYQQIDRRRLRKNLKSLLIIVHPSWFIRTLAVTRPFISSKFSQKIRYVFNLAE
 LAELVPMYVGIPECIKQVDQELNGKQDEPKNEQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004330

ORF Size: 942 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_004330.4](#)

RefSeq Size: 2533 bp

RefSeq ORF: 945 bp

Locus ID: 663

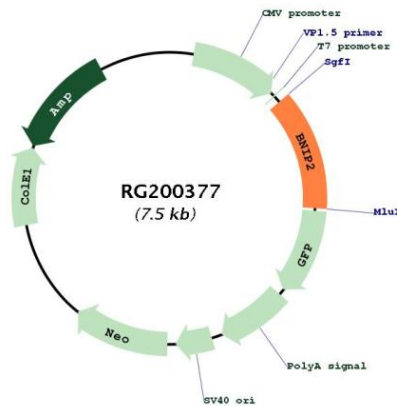
UniProt ID: [Q12982](#)

Cytogenetics: 15q22.2

Domains: SEC14

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. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]

Product images:



Circular map for RG200377