

## Product datasheet for **MR202460**

### **Bnip3l (NM\_009761) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Bnip3l (NM\_009761) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Bnip3l  
**Synonyms:** C86132; D14Ertd719e; Nip3L; Nix  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR202460 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCTCACTTAGTCGAGCCGCCGCCCTTGCACAACAACAACAACACTGCGAGGAAGGGGAGCAGC  
 CCCTGCCGCCGCCGCTGGCCTCAACAGTTCCTGGGTGGAGCTACCCATGAACAGCAGCAATGGCAATGA  
 GAATGGAAATGGGAAGAATGGGGGCTGGAGCACGTTCTTCCTCGTCTCCATCCACAATGGAGACATG  
 GAGAAGATCCTCCTGGATGCACAGCATGAGTCGGGACAGAGCAGCTCAAGAGGCAGTTTCGCACTGTGACA  
 GCCCTTACCACAAGAAGATGGGCAGATCATGTTTGTATGTTGAGATGCATACCAGCAGGGACCACAGCTC  
 TCAGTCAGAAGAAGAAGTTGTAGAAGGAGAAAAGGAAGTTGAGGCTTTGAAGAAAAGTGCAGACTGGGTA  
 TCAGACTGGTCCAGTAGACCCGAAAACATCCCACCCAAAGAGTTCATTTTCAGACACCCTAAACGTGCTG  
 CGTCTCTAAGCATGAGGAAGAGTGGAGCCATGAAGAAAAGGGGCATTTTCTCTGCAGAGTTCCTAAAAGT  
 TTTTCATCCCATCTCTCTCTTCTCATGTGCTGGCCTTGGGGCTCGGCATCTATATTGAAAACGACTG  
 AGCACACCTTCTGCCAGCACCTAC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR202460 protein sequence  
Red=Cloning site Green=Tags(s)

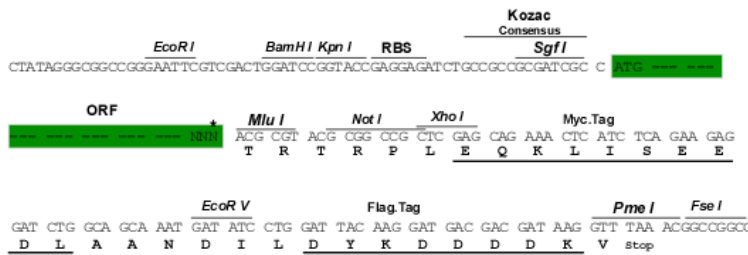
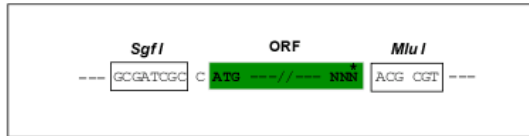
MSHLVEPPPLHNNNNNCEEQEQLPPPAGLNSSWVELPMNSSNGNENGNKNGGLEHVPSSSSIIHNGDM  
 EKILLDAQHESGQSSSRGSSSHCDSPSPQEDGQIMFDVEMHTSRDHSSQSEEEVVEGEKEVEALKKSADWV  
 SDWSSRPENIPPKEFHRHPKRAASLSMRKSGAMKKGIFSAEFLKVFIPSLFLSHVLALGLGIYIGKRL  
 STPSASTY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_009761

**ORF Size:** 657 bp

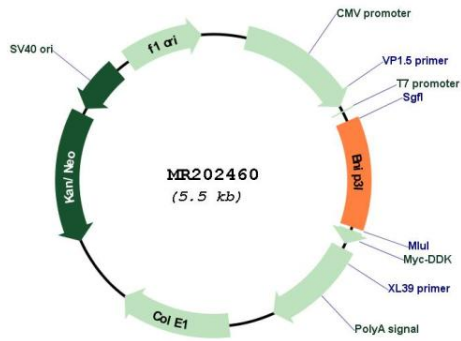
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_009761.3, NP_033891.1</u>
<b>RefSeq Size:</b>	3237 bp
<b>RefSeq ORF:</b>	657 bp
<b>Locus ID:</b>	12177
<b>UniProt ID:</b>	<u>Q9Z2F7</u>
<b>Cytogenetics:</b>	14 34.6 cM
<b>MW:</b>	23.8 kDa
<b>Gene Summary:</b>	Induces apoptosis. Interacts with viral and cellular anti-apoptosis proteins. Can overcome the suppressors BCL-2 and BCL-XL, although high levels of BCL-XL expression will inhibit apoptosis. Inhibits apoptosis induced by BNIP3. Involved in mitochondrial quality control via its interaction with SPATA18/MIEAP: in response to mitochondrial damage, participates in mitochondrial protein catabolic process (also named MALM) leading to the degradation of damaged proteins inside mitochondria. The physical interaction of SPATA18/MIEAP, BNIP3 and BNIP3L/NIX at the mitochondrial outer membrane regulates the opening of a pore in the mitochondrial double membrane in order to mediate the translocation of lysosomal proteins from the cytoplasm to the mitochondrial matrix (By similarity). May function as a tumor suppressor (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202460