

## Product datasheet for **RR213871**

### **Bnip3 (NM\_053420) Rat Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Bnip3 (NM\_053420) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Bnip3  
**Synonyms:** MGC93043  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR213871 representing NM\_053420  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCGCAGAGCGGGGAGGAGAACCTGCAGGGCTCCTGGGTAGAAGTGCCTTCAGCAATGGGAATGGGA  
 GCAGCGTTCAGCTTCCGTCTCTATTTATAATGGTGACATGGAAAAATACTGCTGGATGCGCAGCATGA  
 ATCTGGACGAAGCAGCTCCAAGAGCTCTACTGTGACAGCCACCTCGCTCCAGACACCACAAGATACC  
 AACAGAGCTGAAATAGACACCCACAGCTTTGGTGAGAAAAACAGCACTCTGTCTGAGGAAGATTATTTG  
 AGAGAAGAAGAGAAGTTGAAAGTATCCTGAAGAAAACTCAGATTGGATATGGGATTGGTCAAGTCGGCC  
 AGAAAAATGTTCCCAAGGAGTTCTTTTTAAACACCCGAAGCGCACAGCTACTCTCAGCATGAGAAAC  
 ACAAGCGTTATGAAGAAAGGGGATTTTCTCAGCAGACTTTCTGAAGTTTTCTTCCATCTCTGTTAC  
 TGTCTCATCTGTTAGCCATTGGATTGGGGATCTACATTGGAAGGCGTCTGACAACCTCCACTAGTACCTT  
 T

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR213871 representing NM\_053420  
 Red=Cloning site Green=Tags(s)

MSQSGEENLQGSWVELHF SNGNGSSVPASVSIYNGDMEKILLDAQHESGRSSSKSSHCDSPPRSQTPQDT  
 NRAEIDTHSFGEKNSTLSEEDYIERRREVESILKNSDWIWDWSSRPENVPKFLFKHPKRTATLSMRN  
 TSYMKKGGIFSADFLKVFLPSLLLSHLLAIGLGIYIGRRLTTSTSTF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

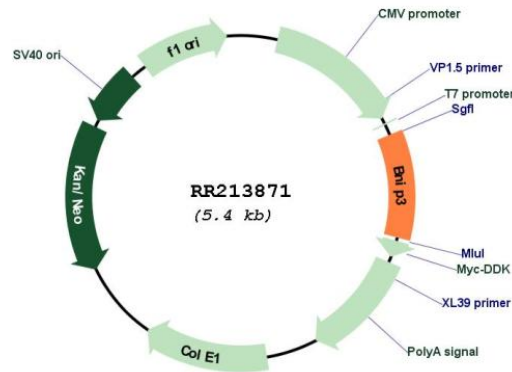


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**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_053420

**ORF Size:** 561 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\\_053420.3](#), [NP\\_445872.1](#)

**RefSeq Size:** 1641 bp

**RefSeq ORF:** 564 bp

**Locus ID:** 84480

**Cytogenetics:** 1q41

**MW:** 21 kDa

**Gene Summary:** heterodimerizes and antagonizes the activity of prosurvival proteins (Bcl-2, Bcl-XL) and promotes apoptosis; provokes mitochondrial defects and cell death of ventricular myocytes during hypoxia [RGD, Feb 2006]