

## Product datasheet for **SC117599**

### **BNIP3 (NM\_004052) Human Untagged Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | BNIP3 (NM_004052) Human Untagged Clone  |
| Tag:                      | Tag Free  |
| Symbol:                   | BNIP3   |
| Synonyms:                 | NIP3  |
| Mammalian Cell Selection: | None  |
| Vector:                   | <u><a href="#">pCMV6-XL5</a></u>  |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| Fully Sequenced ORF:      | >OriGene ORF within SC117599 sequence for NM_004052 edited (data generated by NextGen Sequencing) |

```
ATGTCGCAGAACGGAGCGCCCGGGATGCAGGAGGAGAGCCTGCAGGGCTCCTGGGTAGAA
CTGCACCTTCAGCAATAATGGGAACGGGGCAGCGTTCCAGCCTCGGTTTCTATTTATAAT
GGAGACATGGAAAAAATACTGCTGGACGCACAGCATGAGTCTGGACGGAGTAGCTCCAAG
AGCTCTCACTGTGACAGCCACCTCGCTCGCAGACACCACAAGATACCAACAGGGCTTCT
GAAACAGATACCCATAGCATTGGAGAGAAAAACAGCTCACAGTCTGAGGAAGATGATATT
GAAAGAAGGAAAGAGTTGAAAGCATCTTGAAGAAAACTCAGATTGGATATGGGATTGG
TCAAGTCGGCCGAAAAATATCCCCCAAGGAGTTCCTCTTTAACACCCGAAGCGCACG
GCCACCCTCAGCATGAGGAACACGAGCGTCATGAAGAAAGGGGCATATTCTCTGCAGAA
TTTCTGAAAGTTTTCTCCATCTCTGCTGCTCTCTCATTGCTGGCCATCGGATTGGGG
ATCTATATTGGAAGGCGTCTGACAACCTCCACCAGCACCTTTTGA
```

Clone variation with respect to NM\_004052.2



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_004052 unedited  
 TTCGNAATTTTGTAAACGACTCACTATAGGGCGGCCCGGAATTCGCACGAGGCGCAGC  
 TGGGCCGCGGGCGTCCGACCTCCGCTTTCCACCGCCCGCAGCTGAAGCACATCCCGCAG  
 CCCGGCGCGGACTCCGATCGCCGAGTTGCCCTCTGGCGCCATGTGCGAGAACGGAGCGC  
 CCGGGATGCAGGAGGAGAGCCTGCAGGGCTCCTGGGTAGAAGTCACTTCAGCAATAATG  
 GGAACGGGGGACGCTCCAGCCTCGGTTTCTATTTATAATGGAGACATGGAAAAATAC  
 TGCTGGACGCACAGCATGAGTCTGGACGGAGTAGCTCCAAGAGCTCTCACTGTGACAGCC  
 CACCTCGCTCGCAGACACCAAGATACCAACAGGGCTTCTGAAACAGATACCCATAGCA  
 TTGGAGAGAAAAACAGCTCACAGTCTGAGGAAAGATGATATTGAAAGAAAGGAAAGAAAGTTG  
 AAAGCATCTTGAAGAAAACTCAGATTGGATATGGGATTGGTCAAGTCGGCCGAAAAATA  
 TTCCCCCAAGGAGTTCTCTTTAAACACCCGAAGCGCACGGCCACCCTCAGCATGAGGA  
 ACACGAGCGTCATGAAGAAAGGGGCATATTCTCTGCAGAATTTCTGAAAGTTTTCTTC  
 CATCTCTGCTCTCTCATTGCTGGCCATCGGATTGGGGATCTATATTGGAAGCGTC  
 TGACAACCTCCACCAGCACCTTTTATGAAGAAGTGGAGTCTGACTTGGTTCGTTAGTGG  
 ATTACTTCTGAGCTTGCACATAGCTCACTGAAGAGCTGNTAGATCCTGGNGTGGCCACGT  
 CACTTNGTTTTATTTGTTCTGTAATGCTGCGTTCCTAAATTTAGTAAATAAAGAATAGA  
 CACCTAAATCATGTTGATCTAT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_004052 unedited  
 GGAAACTCTCCAGTTTCAGGNANAGCACTGGGGCAGGGGTACAGGGATGCCACCCGGGA  
 TCTGTTCCAGGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGNTTTTTTTTTTTT  
 TTTTTTTTTTTTTTTTTTTTTTTTTTCCGGAAGGATTTGGCAAAAATTTATTTTTTTTTCC  
 ATTTCCAGTTTTTAAAGTAAACACAAAATTTGTTAAAAATAAGCTGATTTTAAAAGCCC  
 CCAAAAAGTTGAACACAAAAGGAGAGGATTAATTCCTCAATGCAGAGTGATAAAGAGGAAA  
 AGATACTGGGTAGGGCCTTCAACAAAAAAGTATCATCCAGGGGGATCACCTAATAATC  
 GGAAACTTAATTCCTTATAAGGCAAAAAGCAAAAAGAGTTTAGTGTACGAACTGTCCAGCT  
 GAGTTTGGAGCTCTATCTGGGTTTCTGTGGATTATGAACAATTAGCATAGTTATATATA  
 TCTTTTTTTAGAAAAACCTGCATCCATTAATAAATAACTTTCTACAATAGGGG  
 GATATATAAGGCCACATTATTTATTTGGCAAACCCCTTAAAGTGGCGATTTTATTATCA  
 AGTGTATTCTATTCTTNGAAATATAAAGCACTTAAGCTGAATTAAGGGTGCAAAAATTT  
 TTTAAATCCAACACACATCGTGACTGGNATTTAAATTTTTTTATTTTCAGATTTTTATTT  
 CTAATTTCAAAGGAAATTCCTACCAATTTTTCCGGTAAACATTAATAGTCTGCATG  
 CTTATTGATCCCATGGGGTAATATAAAAAACACAGATTTAGGGGCTATTTTTTTATTTCC  
 TAATTAGGAACCCGCTTTTAGAAAAAATACCAAGTGACGGGCCCCCAAGTTCTAA  
 GTTTATAG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_004052

**Insert Size:**

1650 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

|                               |   |
|-------------------------------|---|
| <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>                | <a href="#">NM_004052.2</a> , <a href="#">NP_004043.2</a>   |
| <b>RefSeq Size:</b>           | 1535 bp   |
| <b>RefSeq ORF:</b>            | 585 bp  |
| <b>Locus ID:</b>              | 664   |
| <b>UniProt ID:</b>            | <a href="#">Q12983</a>  |
| <b>Cytogenetics:</b>          | 10q26.3   |
| <b>Protein Families:</b>      | Druggable Genome, Transmembrane   |
| <b>Gene Summary:</b>          | This gene encodes a mitochondrial protein that contains a BH3 domain and acts as a pro-apoptotic factor. The encoded protein interacts with anti-apoptotic proteins, including the E1B 19 kDa protein and Bcl2. This gene is silenced in tumors by DNA methylation. [provided by RefSeq, Dec 2014]  |