

Product datasheet for **MC203253**

Bnip3 (NM_009760) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bnip3 (NM_009760) Mouse Untagged Clone
Tag: Tag Free
Symbol: Bnip3
Synonyms: Nip3
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >BC046603

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CGCCTGGCCTCAGAACTGAGCGGCGCAGGCTGCCCTGCTACCTCTCGGTGACCGCCTCCCAGGCCTGTC
GCAGTTGGGTTCCGGGCTCCTTTGCCGAGCCACCATGTCGCAGAGCGGGGAGGAGAACCTGCAGGGCTCCT
GGGTAGAACTGCACTTCAGCAATGGCAATGGGAGCAGCGTTCCAGCCTCGTCTCTATTTATAATGGTGA
CATGGAAAAAATACTGTTGGATGCCAGCATGAATCTGGACGAAGTAGCTCCAAGAGTTCTCACTGTGAC
AGCCACCTCGCTCCCAGACACCACAAGATACCAACAGAGCTGAAATAGACAGCCACAGCTTTGGCGAGA
AAAACAGCACTCTGTCTGAGGAAGATTATTTGAGAGAAGAAGAGAAGTTGAAAGTATCCTGAAGAAAA
CTCAGATTGGATATGGGATTGGTCAAGTCGACCAGAAAATATCCCCCAAGGAGTTCTTTTTAAACAC
CCGAAGCGCACAGCTACTCTCAGCATGAGAAACACAAGCGTTATGAAGAAAGGGGAATTTTCTCAGCAG
ACTTTCTGAAGGTTTTCTTCCATCTCTGTTACTGTCTCATCTGCTGGCCATTGGCTTGGGGATCTACAT
TGAAGGGCTGACAACTTCCACTAGCACCTTCTGATGAAGATTGGATCTGACTTCTGTTCCACACAGT
GAGGATTCATGTCTGAGCTGTGACAGCTAATTGAAGAGCTAGCATGGTCCTTGGGTGTTTGCATATGTG
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ACAAAATCTTTGCCAAATCCACTGGAGAATACTATATTTGCATATCCATTAATCAGGATCCAAAGCTGCT
TAAATCGGGCGTCTCCAGTCTTCTTTTTCTATAGCATGGTTTTAAAGCCTGCCTCCTTGACATGCTG
TATATATCCTGTTGATTTGTTTCACTGTCCCACACTTAACTCAGGTGTGCTAAAATAAAGTGACATTT
TAACAGTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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Restriction Sites:	RsrII-NotI
ACCN:	NM_009760
Insert Size:	564 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).
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:	BC046603 , AAH46603
RefSeq Size:	1720 bp
RefSeq ORF:	564 bp
Locus ID:	12176
UniProt ID:	O55003
Cytogenetics:	7 F4
Gene Summary:	Apoptosis-inducing protein that can overcome BCL2 suppression. May play a role in repartitioning calcium between the two major intracellular calcium stores in association with BCL2 (By similarity). 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 may play a critical role in the translocation of lysosomal proteins from the cytoplasm to the mitochondrial matrix (By similarity). 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). Plays an important role in the calprotectin (S100A8/A9)-induced cell death pathway (By similarity).[UniProtKB/Swiss-Prot Function]