

Product datasheet for **SC309457**

BNIP1 (NM_013980) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BNIP1 (NM_013980) Human Untagged Clone
Tag:	Tag Free
Symbol:	BNIP1
Synonyms:	NIP1; SEC20; TRG-8
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	<p>>NCBI ORF sequence for NM_013980, the custom clone sequence may differ by one or more nucleotides</p> <pre> ATGGCGGCTCCCCAAGACGTCCACGTCCGGATCTGTAACCAAGAGATTGTCAAATTTGAC CTGGAGGTGAAGGCGCTTATTCAGGATATCCGTGATTGTTCAAGACCTTAAGTGCTCTT ACTGAAGTGAATACTAAAGTAAAAGAGAAATTTCAACAGTTGCGTCACAGAATACAGCCA GTTCTCTATCAAAGGCGATTTATTTGGACTGCTTCCACATTTTTTTTAAAGCTAACTTAT TCCCTGACAGACTTTTCTCAACTCAGCATGACTTCAACTCTCCAACACCTGTTACC TTCAGTGACCTGGAGCAGTTGGCTAAAGAGCAAGACAAAGAATCAGAGAAACAATTCTA CTCCAGGAAGTGGAGAATCACAAAAAGCAGATGCTCAGGAAAACCAAGAGAGCCTG GCCAGACATCCAGTACCATCACTGAGAGCCTCATGGGGATCAGCAGGATGATGGCCAG CAGGTCCAGCAGAGCGAGGAGGCCATGCAGTCTCTAGTCACTTCTTACGAACGATCCTG GATGCAAATGAAGAATTTAAGTCCATGTCGGGCACCATCCAGCTGGGCCGGAAGCTTATC ACAAAATACAATCGCCGGGAGCTGACGGACAAGCTTCTCATCTTCCTTGCCTAGCCCTG TTTCTTGCTACGGTCCTCTATATTGTGAAAAAGCGGCTCTTCCATTTTTGTGA </pre>
Restriction Sites:	Please inquire
ACCN:	NM_013980
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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).


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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:	<u>NM_013980.1, NP_053583.1</u>
RefSeq Size:	1145 bp
RefSeq ORF:	714 bp
Locus ID:	662
UniProt ID:	<u>Q12981</u>
Cytogenetics:	5q35.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	SNARE interactions in vesicular transport
Gene Summary:	<p>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. In addition, this protein is involved in vesicle transport into the endoplasmic reticulum. Alternative splicing of this gene results in four protein products with identical N- and C-termini. [provided by RefSeq, Mar 2011]</p> <p>Transcript Variant: Transcript variant BNIP1-c contains the same 129-nucleotide insertion as BNIP1-b, but also the same 102-nucleotide deletion as BNIP1-a. This variant lacks a BH3 domain which is associated with pro-apoptotic function, and therefore, may function similarly to anti-apoptotic members of the BCL2 family.</p>