

## Product datasheet for **SC304096**

### Bcl2 Binding component 3 (BBC3) (NM\_014417) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Bcl2 Binding component 3 (BBC3) (NM_014417) Human Untagged Clone
Tag:	Tag Free
Symbol:	Bcl2 Binding component 3
Synonyms:	JFY-1; JFY1; PUMA
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_014417 edited

```

ATGGCCCCGCGCACGCCAGGAGGGCAGCTCCCCGGAGCCCGTAGAGGGCCTGGCCCCGCGAC
GGCCCCGCGCCCCCTCCCGCTCGGCCGCTGGTGCCCTCGGCAGTGTCTGCGGCCCTCTGC
GAGCCCCGGCCTGGCTGCCGCCCCCGCCGCCCCACCCTGCTGCCCGCTGCCTACCTCTGC
GCCCCACCGCCCCACCCGCCGTACCGCCGCCCTGGGGGTTCCTCGCTGGCCTGGGGGT
CCCCGAGCCGGCCCCGAGGCCCGCGCCCGGACGGTCCTCAGCCCTCGCTCTCGCTGGCG
GAGCAGCACCTGGAGTCGCCCGTCCCCAGCGCCCCGGGGCTCTGGCGGGCGGTCCCACC
CAGGCGGCCCGGGAGTCCGCGGGGAGGAGGAACAGTGGGCCCGGGAGATCGGGGCCAG
CTGCGCGGATGGCGGACGACCTCAACGCACAGTACGAGCGCGGAGACAAGAGGAGCAG
CAGCGGCACCGCCCTACCCTGGAGGGTCTGTACAATCTCATCATGGGACTCCTGCC
TTACCCAGGGCCACAGAGCCCCGAGATGGAGCCCAATTAG

```



[View online »](#)

<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_014417 unedited GGTCAAATTTGTATACGACTCACTATAGGCGGCCGNAATTCATGGCCCGCGCACGCC AGGAGGGCAGCTCCCCGGAGCCCGTAGAGGGCCTGGCCCGCGACGGCCCGCCCCCTTCC CGCTCGGCCCGCTGGTGCCTCGGCAGTGTCTGCGGCCCTGCGAGCCCGGCCTGGCTG CCGCCCCCGCCGCCCCACCTGCTGCCGCTGCCTACCTTGCGCCCCACCGCCCCAC CCGCCGTACCGCCGCCCTGGGGGTCCCGCTGGCTGGGGGTCCCGCAGCCGGCCCC GAGGCCCGCCCGGACGGTCTCAGCCCTCGCTCTCGTGGCGGAGCAGCACCTGGAGT CGCCCGTGCCACGCGCCCGGGGCTCTGGCGGGCGGTCCCACCCAGGCGCCCGGGAG TCCGCGGGGAGGAGGAACAGTGGCCCGGGAGATCGGGGCCAGCTGCGGCGGATGGCGG ACGACCTCAACGCACAGTACGAGCGGGGAGACAAGAGGAGCAGCAGCGCACCGCCCT CACCTGGAGGGTCTGTACAATCTCATCATGGGACTCCTGCCCTTACCCAGGGGCCACA GAGCCCCGAGATGGAGCCCAATTAGCTCGACTTAGATTGCGGCCGCGGTATAGCTGT TTCCTGAACAGATCCCGGTGGCATCCCTGTGACCCCTCCCAGTGCCTCTCCTGGCCCT GGAAGTTGCCACTCCAGTGCCACCAGCCTTGCTTAATAAAAATAAGTTGCATCATTTTG TCTGACTAGGTGCTTTATATATTATGGGGTGGAGGGGGTGGGNTTTTGAACAAGG GGGAAATTTGGGAAGAAAACCCCTTAGGGGCTGGCGGGGTCTATGGGGAACCAAGCTGG ATGGCAG
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_014417
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<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>	<a href="#">NM_014417.2</a> , <a href="#">NP_055232.1</a>
<b>RefSeq Size:</b>	1840 bp
<b>RefSeq ORF:</b>	582 bp
<b>Locus ID:</b>	27113
<b>UniProt ID:</b>	<a href="#">Q9BXH1</a>
<b>Cytogenetics:</b>	19q13.32
<b>Protein Families:</b>	Druggable Genome

**Protein Pathways:** Huntington's disease, p53 signaling pathway

**Gene Summary:** This gene encodes a member of the BCL-2 family of proteins. This family member belongs to the BH3-only pro-apoptotic subclass. The protein cooperates with direct activator proteins to induce mitochondrial outer membrane permeabilization and apoptosis. It can bind to anti-apoptotic Bcl-2 family members to induce mitochondrial dysfunction and caspase activation. Because of its pro-apoptotic role, this gene is a potential drug target for cancer therapy and for tissue injury. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2011]

Transcript Variant: This variant (4) has alternate exon structure at its 5' end and it thus differs in the 5' UTR and 5' coding region, compared to variant 2. The encoded isoform (4, also known as PUMA-alpha) has a distinct N-terminus and is longer than isoform 2. Isoform 4 also includes the C-terminal BH3 domain and can localize to the mitochondria.