

Product datasheet for **SC322840**

Bcl2 Binding component 3 (BBC3) (NM_001127241) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bcl2 Binding component 3 (BBC3) (NM_001127241) Human Untagged Clone
Tag:	Tag Free
Symbol:	Bcl2 Binding component 3
Synonyms:	JFY-1; JFY1; PUMA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_001127241 edited ATGAAATTTGGCATGGGGTCTGCCAGGCATGTCCATGCCAGGTGCCAGGGCTGCTTCC ACGACGTGGGTCCCCTGCCAGATTTGTGGTCTCAGCCCTCGCTCTCGCTGGCGGAGCAG CACCTGGAGTCGCCCTGCCAGCGCCCGGGGCTCTGGCGGGCGGTCCACCCAGGCG GCCCCGGGAGTCCGCGGGAGGAGGAACAGTGGGCCCGGAGATCGGGGCCAGCTGCGG CGGATGGCGGACGACCTCAACGCACAGTACGAGCGGCGGAGACAAGAGGAGCAGCAGCGG CACCGCCCTCACCTGGAGGTCTGTACAATCTCATCATGGGACTCCTGCCCTTACCC AGGGGCCACAGAGCCCCGAGATGGAGCCCAATTAG
Restriction Sites:	Please inquire
ACCN:	NM_001127241
Insert Size:	1550 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).
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001127241.1.
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:

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_001127241.1](#), [NP_001120713.1](#)

RefSeq Size: 1550 bp

RefSeq ORF: 396 bp

Locus ID: 27113

UniProt ID: [Q9BXH1](#)

Cytogenetics: 19q13.32

Protein Families: 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 (2) encodes isoform 2 (also known as PUMA-beta), which includes the C-terminal BH3 domain and can localize to the mitochondria.