

## Product datasheet for **RC225019**

### **Bcl2 Binding component 3 (BBC3) (NM\_001127242) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Bcl2 Binding component 3 (BBC3) (NM\_001127242) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** BBC3  
**Synonyms:** JFY-1; JFY1; PUMA  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC225019 representing NM\_001127242  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAAATTTGGCATGGGGTCTGCCAGGCATGTCCATGCCAGGTGCCAGGGCTGCTTCCACGACGTGGG  
TCCCCTGCCAGATTTGTGAGACAAGAGGAGCAGCAGCGGCACCGCCCTCACCTGGAGGGTCTGTACA  
ATCTCATCATGGGACTCCTGCCCTTACCCAGGGGCCACAGAGCCCCGAGATGGAGCCCAATTAGGTGCC  
TGCACCCGCCCGGTGGACGTGAGGACTCGGGGGCAGGCCCTCCACCTCTGACACCTGGCCAGCG  
CGGGGACTTTCTCTGCACCATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

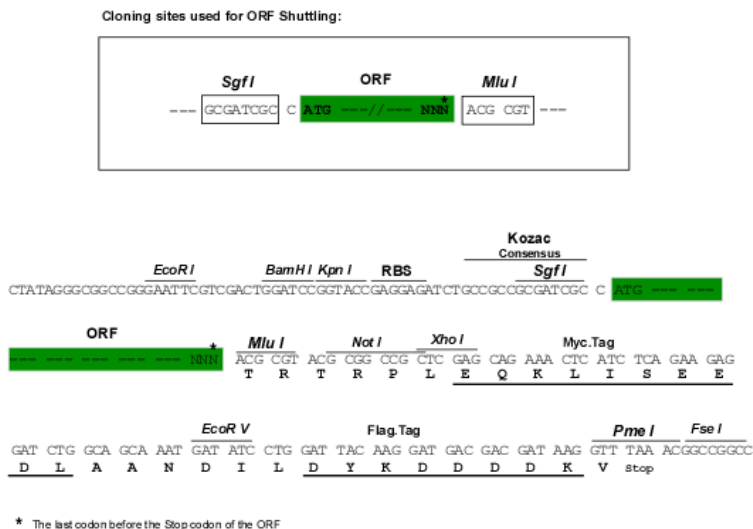
**Protein Sequence:** >RC225019 representing NM\_001127242  
Red=Cloning site Green=Tags(s)  
MKFGMGSQAQPCQVPRAASTTWVPCQICETRGAAPPLTLEGPVQSHHGTPALTQGPQSPRDGAQLGA  
CTRPVDVRDSGGRPLPPPDTLASAGDFLCTM  
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

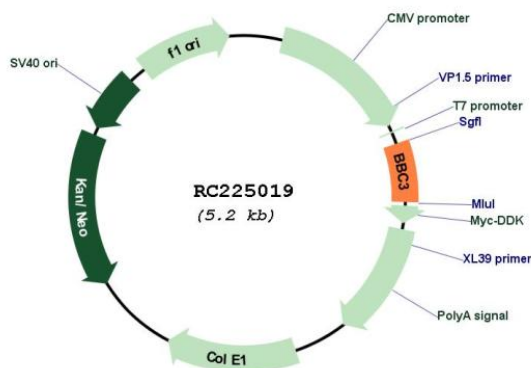


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**Cloning Scheme:**



**Plasmid Map:**



ACCN: NM\_001127242

ORF Size: 303 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001127242.3</a>
<b>RefSeq Size:</b>	1359 bp
<b>RefSeq ORF:</b>	306 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
<b>Protein Pathways:</b>	Huntington's disease, p53 signaling pathway
<b>MW:</b>	10.3 kDa
<b>Gene Summary:</b>	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]