

## Product datasheet for **RC213203**

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Bcl2 Binding component 3 (BBC3) (NM\_014417) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Bcl2 Binding component 3  
**Synonyms:** JFY-1; JFY1; PUMA  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC213203 representing NM\_014417  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCCCGCACGCCAGGAGGGCAGCTCCCCGGAGCCCGTAGAGGGCCTGGCCCCGACGGCCCCGCGCC  
CCTTCCCCTCGGCCGCTGGTGCCTCGGCAGTGTCTCGGCCCTCTGCGAGCCCGCCTGGCTGCCGC  
CCCCGCCGCCACCCTGCTGCCCGTGCCTACCTCTGCGCCCCACCGCCCCACCGCCGTACCGCC  
GCCCTGGGGGTCCCGCTGGCCTGGGGTCCCCGCAGCCGCCCGAGGCCCGCCCGGACGGTCTCT  
AGCCCTCGCTCTCGTGGCGGAGCAGCCTGGAGTCGCCGTGCCAGCCCCGGGGCTCTGGCGGG  
CGGTCCCACCCAGGCGGCCCGGGAGTCCGCGGGGAGGAGGAACAGTGGGCCCGGAGATCGGGGCCAG  
CTGCGGGGATGGCGGACGACCTCAACGCACAGTACGAGCGGCGGAGACAAGAGGAGCAGCAGCGGCACC  
GCCCTCACCTGGAGGGTCTGTACAATCTCATCATGGGACTCTGCCCTTACCAGGGGCCACAGAGC  
CCCCGAGATGGAGCCCAAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC213203 representing NM\_014417  
 Red=Cloning site Green=Tags(s)

MARARQEGSSPEPVEGLARDGPRPFPLGRLVPSAVSCGLCEPGLAAAPAAPTLLPAAAYLCAPTAPPVTA  
ALGGSRWPGGPRSRPRPDGPPSLSLAEQHLESPVPSAPGALAGGPTQAAPGVRGEEEQWAREIGAQ  
LRRMADDLNAQYERRRQEEQQRHRPSPWRVLYNLIMGLLPLPRGHRAPEMEPN

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**



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**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6116\\_h09.zip](https://cdn.origene.com/chromatograms/mk6116_h09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_014417

**ORF Size:** 579 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**

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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

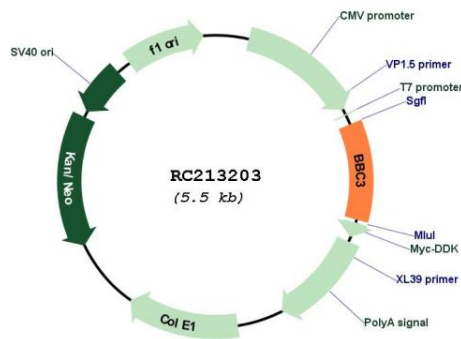
**RefSeq:** [NM\\_014417.5](#)

**RefSeq Size:** 1840 bp

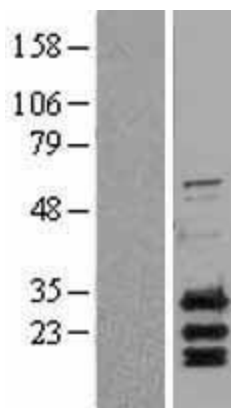
RefSeq ORF: 582 bp  
 Locus ID: 27113  
 UniProt ID: [Q9BXH1](#)  
 Cytogenetics: 19q13.32  
 Protein Families: Druggable Genome  
 Protein Pathways: Huntington's disease, p53 signaling pathway  
 MW: 20.4 kDa

**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]

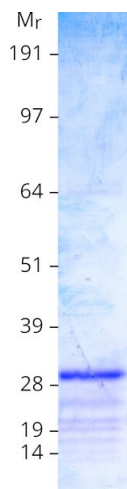
**Product images:**



Circular map for RC213203



Western blot validation of overexpression lysate (Cat# [LY402330]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213203 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified BBC3 protein (Cat# [TP313203]). The protein was produced from HEK293T cells transfected with BBC3 cDNA clone (Cat# RC213203) using MegaTran 2.0 (Cat# [TT210002]).