

Product datasheet for **RG213203**

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: TurboGFP
Symbol: Bcl2 Binding component 3
Synonyms: JFY-1; JFY1; PUMA
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG213203 representing NM_014417
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCCCGCACGCCAGGAGGGCAGCTCCCCGGAGCCCGTAGAGGGCCTGGCCCCGCACGGCCCCGCGCC
 CCTTCCCCTCGGCCGCTGGTGCCTCGGCAGTGTCTCGGCCCTCTCGAGCCCGCCCTGGCTGCCGC
 CCCC GCCGCCCCACCCTGCTGCCCGTGCCTACCTCTGCGCCCCACC GCCCCACC CGCGTCAACGCC
 GCCCTGGGGGTCCCGCTGGCCTGGGGTCCCCGCAGCCGCCCGAGGCCCGCCCGGACGGTCTCT
 AGCCCTCGCTCTCGTGGCGGAGCAGCACCTGGAGTCGCCGTGCCAGCCCCGGGGCTCTGGCGGG
 CGGTCCCACCCAGCGGCCCGGGAGTCCGCGGGGAGGAGGAACAGTGGGCCCGGAGATCGGGGCCAG
 CTGCGGGGATGGCGGACGACCTCAACGCACAGTACGAGCGGCGGAGACAAGAGGAGCAGCAGCGGCACC
 GCCCTCACCTGGAGGGTCTGTACAATCTCATCATGGGACTCTGCCCTTACCAGGGGCCACAGAGC
 CCCCGAGATGGAGCCCAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG213203 representing NM_014417
 Red=Cloning site Green=Tags(s)

MARARQEGSSPEPVEGLARDGPRPFPLGRLVPSAVSCGLCEPGLAAAPAPTLLPAAYLCAPTAPPVTA
 ALGGSRWPGGPRSRPRPDGPPSLSLAEQHLESPVPSAPGALAGGPTQAAPGVRGEEEQWAREIGAQ
 LRRMADDLNAQYERRRQEEQQRHRPSPWRVLYNLMGLLPLPRGHRAPEMEPN

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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.

RefSeq: [NM_014417.5](#)

RefSeq Size: 1840 bp

RefSeq ORF: 582 bp

Locus ID: 27113

UniProt ID: [Q9BXH1](#)

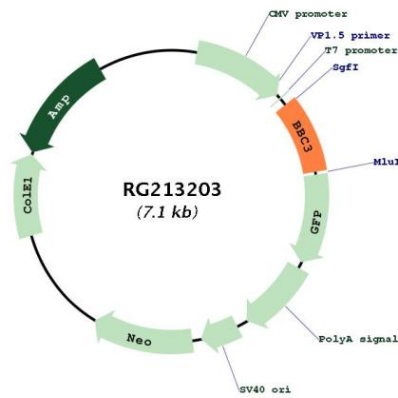
Cytogenetics: 19q13.32

Protein Families: Druggable Genome

Protein Pathways: Huntington's disease, p53 signaling pathway

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 RG213203