

## Product datasheet for **RR211270**

### **Bbc3 (NM\_173837) Rat Tagged ORF Clone**

#### Product data:

Product Type: Expression Plasmids  
Product Name: Bbc3 (NM\_173837) Rat Tagged ORF Clone  
Tag: Myc-DDK  
Symbol: Bbc3  
Synonyms: Puma  
Mammalian Cell Selection: Neomycin  
Vector: pCMV6-Entry (PS100001)  
E. coli Selection: Kanamycin (25 ug/mL)  
ORF Nucleotide Sequence: >RR211270 representing NM\_173837  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCCCGCACGCCAGGAGGGCAGCTCTCCGGAGCCCGTAGAGGGCCTAGCCCCGCACAGCCCCGCTC  
CTTTCCCGCTCGGCCGCTGATGCCCTCCGCTGTATCCTGCGGCCCTGCGAGCCCGCCGCCCCGCTGC  
CCCTGTGCCCTGCCTTGCTGCCGGCCGCTACCTCTGCGCCCCACCGCCCCGCTGCCGTACCGCC  
GCCCTGGGGGGCCCCGCTGGCCTGGGGGTACCAGCCGCGCCCGAGGCCCGCCCGGACGGTCTCT  
AGCCCTCGCTGTACCAGCCAGCAGCACCTAGAGTCGCCGTGCCAGGCCCGGAGGCCCTGGCGGG  
AGGCCCCACCAAGCTGCCCGGGAGTGCCTGTGGAGGAGGAGTGGGCCCGGAGATCGGGGCCAG  
CTGCGGAGGATGGCGGACGACCTCAACGCGAGTACGAGCGGCGGAGACAAGAAGAGCAACATCGACACC  
GACCCTCGCCCTGGAGGGTCATGTATACTCTTCATGGGACTCTCCCTTACCAGGGATCCTGGAGC  
CCAGAAATGGAGCCCAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR211270 representing NM\_173837  
Red=Cloning site Green=Tags(s)

MARARQEGSSPEPVEGLARDSRPFPLGRLMPSAVSCGLCEPGLPAAPAAPALLPAAYLCAPTAPPVTA  
ALGGPRWPGGHRSPRPRPDGPQPSLSPAQQHLESPVSAPEALAGGPTQAAPGVRVEEEWAREIGAQ  
LRRMADDLNAQYERRRQEEQHRHRPSPWRVMYNLFMGLLPLPRDPGAPEMEPN

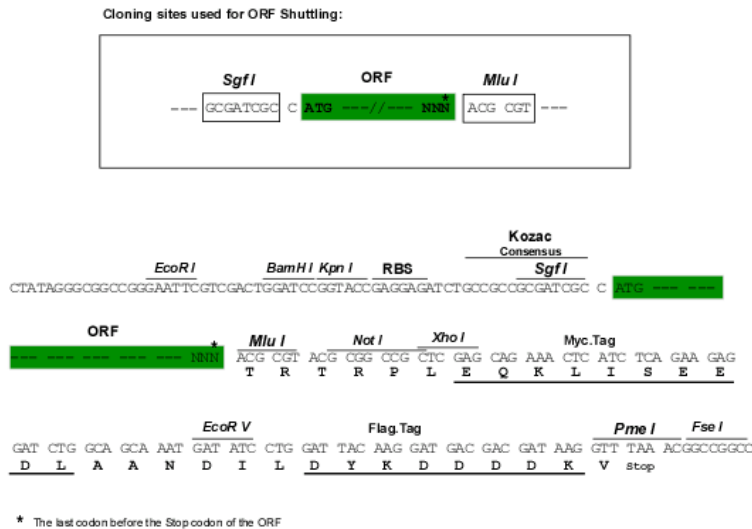
**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV



Chromatograms: [https://cdn.origene.com/chromatograms/ja3458\\_e09.zip](https://cdn.origene.com/chromatograms/ja3458_e09.zip)

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM\_173837

ORF Size: 579 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_173837.2](#), [NP\\_776209.1](#)

**RefSeq Size:** 1823 bp

**RefSeq ORF:** 582 bp

**Locus ID:** 317673

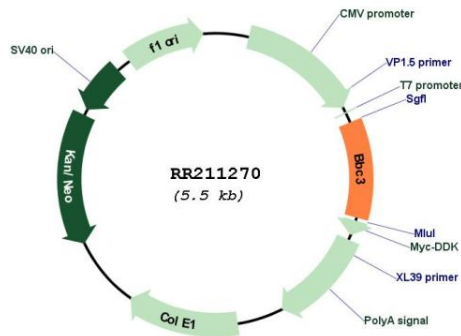
**UniProt ID:** [Q80ZG6](#)

**Cytogenetics:** 1q21

**MW:** 20.7 kDa

**Gene Summary:** Essential mediator of p53/TP53-dependent and p53/TP53-independent apoptosis. Functions by promoting partial unfolding of BCL2L1 and dissociation of BCL2L1 from p53/TP53 (By similarity). Essential for ER stress-induced cell death (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RR211270