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Product datasheet for RC225345

Bcl2 Binding component 3 (BBC3) (NM_001127240) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bcl2 Binding component 3 (BBC3) (NM_001127240) 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:	>RC225345 representing NM_001127240 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAAATTTGGCATGGGGTCTGCCCAGGCATGTCCATGCCAGGTGCCCAGGGCTGCTTCCACGACGTGGG TCCCCTGCCAGATTTGTGGCCCCAGGGAGCGCCATGGCCCGCGCACGCCAGGAGGGCAGCTCCCCGGAGC CCGTAGAGGGCCTGGCCCGCGACGGCCCGCGCCCCTTCCCGCTCGGCCGCCTGGTGCCCTCGGCAGTGTC CTGCGGCCTCTGCGAGCCCGGCCTGGCTGCCGCCCCCGCCGCCCCCACCCTGCTGCCCGCTGCCTACCTC TGCGCCCCCACCGCCCCACCCGCCGTCACCGCCGCCCTGGGGGGTTCCCGCTGGCCTGGGGGTCCCCGCA GCCGGCCCCGAGGCCCGCGCCCGGACGGTCCTCAGCCCTCGCTCTCGCTGGCGGAGCAGCACCTGGAGTC GCCCGTGCCCAGCGCCCCGGGGGCTCTGGCGGGCGGTCCCACCCAGGCGGCCCCGGGAGTCCGCGGGGAG GAGGAACAGTGGGCCCGGGAGATCGGGGCCCAGCTGCGGCGGATGGCGGACGACCTCAACGCACAGTACG AGCGGCGGAGACAAGAGGAGCAGCAGCGGCACCGCCCCTCACCCTGGAGGGTCCTGTACAATCTCATCAT GGGACTCCTGCCCTTACCCAGGGGCCACAGAGCCCCCGAGATGGAGCCCAATTAGGTGCCTGCACCCGCC CGGTGGACGTCAGGGACTCGGGGGGCAGGCCCCTCCCACCTCCTGACACCCTGGCCAGCGCGGGGGACTT TCTCTGCACCATG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC225345 representing NM_001127240
Red=Cloning site Green=Tags(s)

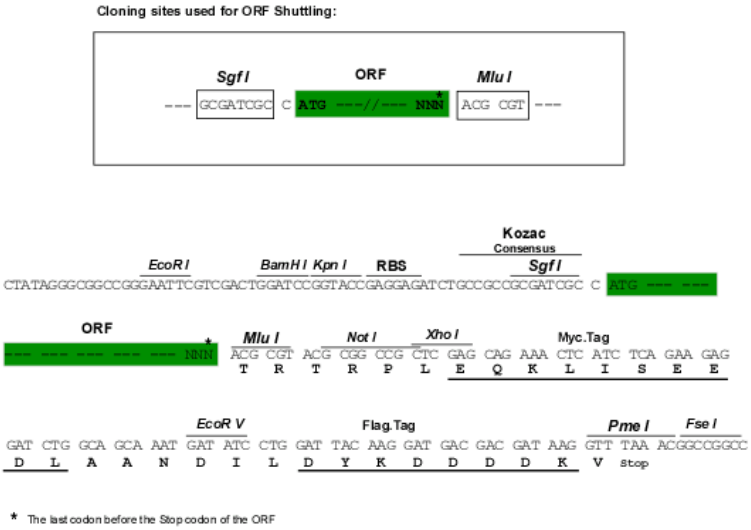
MKFGMGSAQACPCQVPRAASTTWVPCQICGPRERHGPRTPGGQLPGARRGPGPRRPAPLPARPPGALGSV
LRPLRARPGCRPRRPHPAARCLPLRPHRPTRRHRRPGGFPLAWGSPQPAPRPAPGRSSALALAGGAAPGV
ARAQRPGGSGGRSHPGGPGSPRGGGTVGPGDRGPAAADGGRPQRTVRAAETRGAAAAPPLTLEGPVQSHH
GTPALTQGPQSPRDGAQLGACTRPVDVRDSGGRPLPPPDTLASAGDFLCTM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4345_g10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001127240

ORF Size: 783 bp

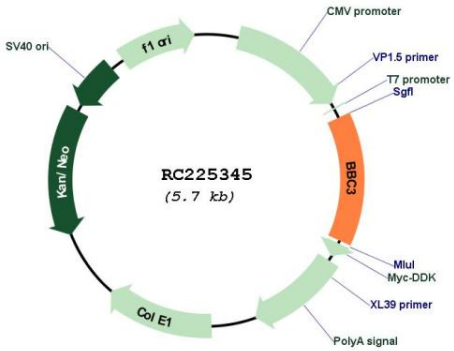
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

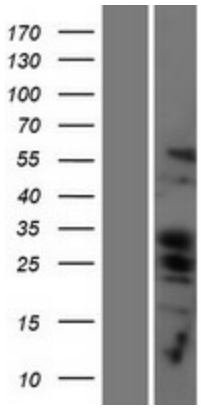
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_001127240.3
RefSeq ORF:	786 bp
Locus ID:	27113
UniProt ID:	Q9BXH1
Cytogenetics:	19q13.32
Protein Families:	Druggable Genome
Protein Pathways:	Huntington's disease, p53 signaling pathway
MW:	26.3 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]

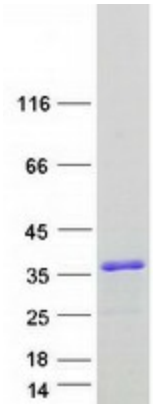
Product images:



Circular map for RC225345



Western blot validation of overexpression lysate (Cat# [LY426734]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225345 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified BBC3 protein (Cat# [TP325345]). The protein was produced from HEK293T cells transfected with BBC3 cDNA clone (Cat# RC225345) using MegaTran 2.0 (Cat# [TT210002]).