

Product datasheet for **MR22317**

Brcc3 (NM_145956) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Brcc3
Synonyms:	C6.1A
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >MR22317 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGTGCAGGTGGTGCAAGCTGTGCAGGCGGTTTCATCTTGAGTCTGACGCTTTCCTAGTTTGTCTCA
ACCATGCTCTGAGCACAGAAAAGGAGGAAGTGATGGGTCTGTGTATAGGGGAGTTGAATGATGACATAAG
GAGTGACTCCAAATTTACATACACTGGAACGGAATGCGCACAGTCCAAGAAAAGATGGATACCATCAGA
ATTGTTTCATATCCATTCTGTTCATCTTGCAGGCTTCTGACAAGAGAAAGGACCGTGTAGAAATTTCTC
CAGAGCAGCTGTCTGCAGCTTCAACAGAGGCAGAAAGGTTGGCTGAACAAACAGGTCGTCCTCATGAGAGT
TGTTGGCTGGTATCATTCCACCCTCATATAACTGTTGGCCTTCACATGTTGATGTTCTGACACAAGCC
ATGTACCAATGATGGATCAAGGCTTTGTAGGACTTATTTTTCTGTTTCATAGAAGACAAAAACACAA
AGACTGGCCGGTACTCTATACTTGCTTCAATCCATACAAGCCAAAAAGCTCAGAGTATGAGAGAAT
TGAAATCCCAATCCATATTGTACCTCATATCACTATTGGGAAAGTATGCCTTGAATCTGCAGTAGAGCTG
CCAAAAATCCTGTGTGAGGAAGAACAGGATGCATATAGAAGGATTACAGCCTTACACATCTGGACTCAG
TGACCAAGATCCATAATGGCTCAGTATTTACCAAGAATTTGTGCAGTCAGATGTCAGCAGTCAGTGGGCC
TCTACTGCAGTGGTTGGAAGACAGATTGGAGCAAACCAGCAGCATTTCAGGAGTTGCAACAAGAAAAG
GAAGAGCTTATGGAAGAGCTGTCTCCCTAGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>MR22317 protein sequence
Red=Cloning site Green=Tags(s)

MAVQVVQAVQAVHLESDAFVLCLNHALSTEKEEVMGLCIGELNDDIRSDSKFTYTGEMRTVQEKMDTIR
IVHIHSVILRRSDKRKDRVEISPEQLSAASTEAEERLAEITGRPMRVVGWYHSHPHITVWPSHVDVRTQA
MYQMMDQGFVGLIFSCFIEDKNTKTGRVLYTCFQSIQAQKSSEYERIEIPIHIVPHITIGKVCLESAYEL
PKILCQEEQDAYRIHSLTHLDSVTKIHNGSVFTKNLCSQMSAVSGPLQLQWLEDRLEQNQQHLQELQQEK
FELMEELSDAY

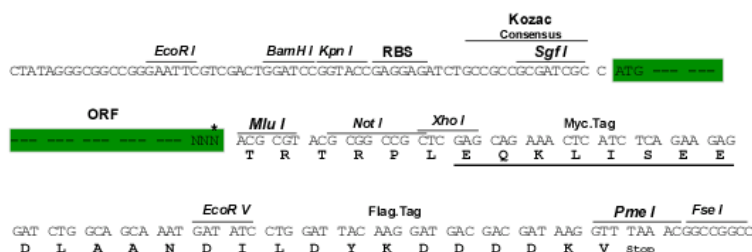
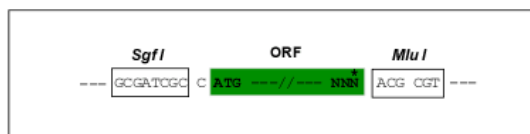
TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:

NM_145956

ORF Size:

873 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:

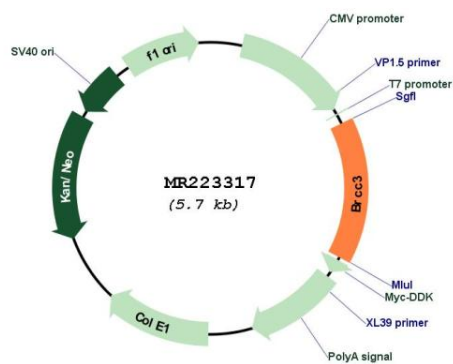
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_145956.4, NP_666068.1</u>
RefSeq Size:	4335 bp
RefSeq ORF:	876 bp
Locus ID:	210766
UniProt ID:	<u>P46737</u>
Cytogenetics:	X A7.3
MW:	33.3 kDa
Gene Summary:	Metalloprotease that specifically cleaves 'Lys-63'-linked polyubiquitin chains. Does not have activity toward 'Lys-48'-linked polyubiquitin chains. Component of the BRCA1-A complex, a complex that specifically recognizes 'Lys-63'-linked ubiquitinated histones H2A and H2AX at DNA lesions sites, leading to target the BRCA1-BARD1 heterodimer to sites of DNA damage at double-strand breaks (DSBs). In the BRCA1-A complex, it specifically removes 'Lys-63'-linked ubiquitin on histones H2A and H2AX, antagonizing the RNF8-dependent ubiquitination at double-strand breaks (DSBs). Catalytic subunit of the BRISC complex, a multiprotein complex that specifically cleaves 'Lys-63'-linked ubiquitin in various substrates. Mediates the specific 'Lys-63'-specific deubiquitination associated with the COP9 signalosome complex (CSN), via the interaction of the BRISC complex with the CSN complex. The BRISC complex is required for normal mitotic spindle assembly and microtubule attachment to kinetochores via its role in deubiquitinating NUMA1. Plays a role in interferon signaling via its role in the deubiquitination of the interferon receptor IFNAR1; deubiquitination increases IFNAR1 activity by enhancing its stability and cell surface expression. Down-regulates the response to bacterial lipopolysaccharide (LPS) via its role in IFNAR1 deubiquitination.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223317