

## Product datasheet for **MC204038**

### Brcc3 (NM\_145956) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Brcc3 (NM\_145956) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Brcc3  
**Synonyms:** C6.1A  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC021313  
 CCACGCGTCCGCGGACGCGTGGGGTGAGCGGAAAGAAGATGGCGGTGCAGGTGGTGAAGCTGTGCAGGC  
 GGTTTCATCTTGAGTCTGACGCTTTCCTAGTTTGTCTCAACCATGCTCTGAGCACAGAAAAGGAGGAAGTG  
 ATGGGTCTGTGTATAGGGGAGTTGAATGATGACATAAAGGAGTGACTCCAATTTACATACACTGGAACGG  
 AAATGCGCACAGTCCAAGAAAAGATGGATACCATCAGAATTGTTTCATATCCATTCTGTTCATCTTTCGCG  
 GCGTTCTGACAAGAGAAAAGGACCGTGTAGAAAATTTCTCCAGAGCAGCTGTCTGCAGCTTCAACAGAGGCA  
 GAAAGGTTGGCTGAACTAACAGGTCCATGAGAGTTGTTGGCTGGTATCATTCCCACCTCATATAA  
 CTGTTTGGCCTTACATGTTGATGTTTCGTACACAAGCCATGTACCAAATGATGGATCAAGGCTTTGTAGG  
 ACTTATTTTTTCTGTTTCATAGAAGACAAAAACAAAAGACTGGCCGGTACTCTATACTTGCTTCCAA  
 TCCATACAAGCCAAAAAAGCTCAGAGTATGAGAGAATTGAAATCCCAATCCATATTGTACCTCATATCA  
 CTATTGGGAAAGTATGCCTTGAATCTGCAGTAGAGCTGCCAAAAATCCTGTGTCAGGAAGAACAGGATGC  
 ATATAGAAGGATTCACAGCCTTACACATCTGGACTCAGTGACCAAGATCCATAATGGCTCAGATTTACC  
 AAGAAATTTGTGCAGTCAGATGTCAGCAGTCAGTGGGCCTCTACTGCAGTGGTTGGAAGACAGATTGGAGC  
 AAAACCAGCAGCATTTGCAGGAGTTGCAACAAGAAAAGGAAGAGCTTATGGAAGAGCTGTCTCCCTAGA  
 ATAAAGCATGAGAACAACAAAAAATGTGGGCAGATGAAAATACCTGGCATATAATTTATATATTAAT  
 CAATTTTGAAAAAGATAATGTTGGAGGGACTACATTATATAAATTCAAGACTTATATAAAGCTACAATA  
 ATCAAGATACTATGTTTTTGCAGAAGAATCAATGCAATAGGAAAGAAAAATTCAGAAATAAGCCCAAT  
 AATATGCTTAACTAATTTTTGAAAAAGTAAAAATGTGATTCAAGGAAGAAAAACAGTCATTTCAACGCAT  
 TGAACCTCCACAAGCCAACAAAGTATATTCTAAAAGTACCTCAAATATATCATGCATTTAAATGTACTA  
 TGAAAAACCTAGAAAAAATATTCAAGAAAAATTTTCAGGAGTTAAGTACTTAATATTCAACTCAAAGCA  
 CAATTTTATAAGAAAAACAAAGTAGATTTATTGGACTTCATCAAAATTAAGCTTTCTATTCTGAAAACCT AAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_145956  
**Insert Size:** 876 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC021313</a> , <a href="#">AAH21313</a>
<b>RefSeq Size:</b>	1416 bp
<b>RefSeq ORF:</b>	876 bp
<b>Locus ID:</b>	210766
<b>UniProt ID:</b>	<a href="#">P46737</a>
<b>Cytogenetics:</b>	X A7.3
<b>Gene Summary:</b>	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]