

Product datasheet for **RN200688**

Brcc3 (NM_001127300) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Brcc3 (NM_001127300) Rat Untagged Clone
Tag: Tag Free
Symbol: Brcc3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN200688 representing NM_001127300
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGC**C

ATGGCGGTGCCGGTGGTTCAGGCCGTGCAGGCTGTCCATCTGGAGTCGGACGCCTTTCTGGTTTGTCTGA
ACCACGCCCTGAGTACGGAGAAAGAGGAGGTGATGGGTCTGTGCATCGGGGAGCTGAACGACGACGTAAG
GAGTGAGTCCAAATTCGCACACGCCGGAAGTGACGTGTGCACGGTTCGGGAGAAGGTGGATTCGATCAGA
GTCGTCCACATCCACTCGGTTCATCCTGCGCCGTTCTGACAAGAGGAAGACCGCGTGGAGATTTCCC
CAGAGCAGCTGTCTGCAGCCTCGACTGAGGCGGAAAGTTGGCGAACTCACTGGCCGTCCCATGAGAGT
CGTCGGCTGGTACCATTGCACCCTCACATAACGGTGTGGCCTTCACACGTGGATGTTCCGACGCAAGCC
ATGTACCAAAATGATGGACCAAGGCTTCGTGGGACTTATTTTCTCCTGTTTCATAGAAGACAAGAACACAA
AGACCGGACGTGTCTTACACTTGCTTCCAATCCGTACAAGCCAGAAAAGCTCAGACTATGAGAGAAT
CGAAATCCCCGTCCACGTCGTTCCACGTCACCATCGGGAAAGTTGCCTGGAGTCCGCGGTGGAGCTG
CCGAAGATCCTGTGTGAGGAGGACGAGGACGCGTACAGGCGGATCCATAGCCTCACACATCTGGACTCGG
TGACCAAGATCCACAATGGCTCGGTCTTACCAAGAATCTGTGCAGCCAGATGTGGCGGTGAGTGGGCC
TCTGCTCAGTGGTTAGAGGACAGATTGGAGCAAAACCAGCAGCATCTGCGGGAGCTGCAGCGGGAGAAG
GAGGAGCTCATGGCGGAGCTGCGTTCGCTCGAAT**TAA**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII
ACCN: NM_001127300
Insert Size: 876 bp



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OTI Disclaimer:	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).
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:	<ol style="list-style-type: none">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:	<u>NM_001127300.1</u> , <u>NP_001120772.1</u>
RefSeq Size:	2568 bp
RefSeq ORF:	876 bp
Locus ID:	316794
UniProt ID:	<u>B2RYM5</u>
Cytogenetics:	9q12
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]