

## Product datasheet for **MG223950**

### **Brcc3 (NM\_001166457) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Brcc3 (NM\_001166457) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Brcc3  
**Synonyms:** C6.1A  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG223950 representing NM\_001166457  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGTGCAGGTGGTGAAGCTGTGCAGGCGGTTTCATCTTGAGTCTGACGCTTCTAGTTTGTCTCA  
ACCATGCTCTGAGCACAGAAAAGGAGGAAGTGATGGGTCTGTGTATAGGGGAGTTGAATGATGACATAAG  
GAGTGACTCCAAATTTACATACTGGAACGGAATGCGCACAGTCCAAGAAAAGATGGATACCATCAGA  
ATTGTTTCATATCCATTCTGTCATCATCTTGCAGGCTTCTGACAAGAGAAAAGGACCGTGTAGAAATTTCTC  
CAGAGCAGCTGTCTGCAGCTTCAACAGAGGCAGAAAGGTTGGCTGAACTAACAGGTCGTCCCATGAGAGT  
TGTTGGCTGGTATCATTCCACCCTCATATAACTGTTTGGCCTTCACATGTTGATGTTCTGACACAAGCC  
ATGTACCAAATGATGGATCAAGGCTTGTAGGACTTATTTTTCTGTTTCATAGAAGACAAAAACACAA  
AGACTGGCCGGTACTCTATACTTGCTTCCAATCCATACAAGCCAAAAAGCTCAGAGTATGAGAGAAT  
TGAAATCCCAATCCATATTGTACCTCATATCACTATTGGGAAAGTATGCCTTGAATCTGCAGTAGAGCTG  
CCAAAAATCCTGTGTGAGGAAGAACAGGATGCATATAGAAGGATTCACAGCCTTACACATCTGGACTCAG  
TGACCAAGATCCATAATGGCTCAGTATTTACCAAGAATTTGTGCAGTCAGATGTCAGCAGTCAGTGGGCC  
TCTACTGCAGTGGTTGGAAGACAGATTTGGAGCAAAACCAGCAGCATTTCAGGAGTTGCAACAAGAAAAG  
GAAGAGCTTATGGAAGAGCTGTCTTCCCTAGAA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG223950 representing NM\_001166457  
Red=Cloning site Green=Tags(s)

MAVQVVQAVQAVHLESDAFLVCLNHALSTEKEEVMGLCIGELNDDIRSDSKFTYTGTEMRTVQEKMDTIR  
 IVHIHSVILRRSDKRKDRVEISPEQLSAASTEAEERLAELTGRPMRVVWYHSHPHITVWPSHVDVRTQA  
 MYQMMDQGFVGLIFSCFIEDKNTKTGRVLYTCFQSIQAQKSSEYERIEIPIHIVPHITIGKVCLESAVEL  
 PKILCQEEQDAYRRIHSLTHLDSVTKIHNGSVFTKNLCSQMSAVSGPLLQWLEDRLEQNQQHLQELQQEK  
 EELMEELSSLE

TRTRPLE - GFP Tag - V

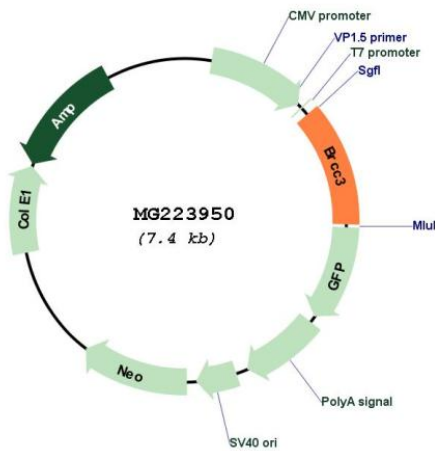
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001166457

**ORF Size:** 873 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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="#">NM_001166457.1</a> , <a href="#">NP_001159929.1</a>
<b>RefSeq Size:</b>	4338 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]