

## Product datasheet for **SC119847**

### **BARD1 (NM\_000465) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BARD1 (NM_000465) Human Untagged Clone
Tag:	Tag Free
Symbol:	BARD1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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## Fully Sequenced ORF:

>OriGene sequence for NM\_000465 edited  
GAATTCGGCACGAGGCTTGGCCGGTTTCGAGTCGCTGACCTGCAGCTTCCCTGTGGTTTC  
CCGAGGCCCTCCTTGCTTCCCGCTCTCCGAGGAGCCTTTCATCCGAAGGCCGGACGATGCC  
GGATAATCGGCAGCCGAGGAACCGGCAGCCGAGGATCCGCTCCGGGAACGAGCCTCGTTC  
CGCGCCCGCCATGGAACCGGATGGTCGCGGTGCCTGGGCCACAGTCGCGCCGCGCTCGA  
CCGCTTGAGAAGCTGCTGCGCTGCTCGCTTGTACTAACATTCTGAGAGAGCCTGTGTG  
TTTAGAGGATGTGAGCACATCTTCTGTAGTAATTGTGTAAGTGACTGCATTGGAACCTGG  
ATGTCCAGTGTGTTACACCCCGCCTGGATACAAGACTTGAAGATAAATAGACAACCTGGA  
CAGCATGATTCAACTTTGTAGTAAGCTTCGAAATTTGCTACATGACAATGAGCTGTCAGA  
TTTGAAAGAAGATAAACCTAGGAAAAGTTGTTAATGATGCAGGAAAACAAGAAGATTC  
AATTAATGTGGTTTAGCCCTCGAAGTAAGAAAGTCAGATATGTTGTGAGTAAAGCTTC  
AGTGCAAAACCCAGCCTGCAATAAAAAAAGATGCAAGTGCTCAGCAAGACTCATATGAATT  
TGTTTCCCAAGTCTCTGAGATGTTTCTGAGAGGGCTAAAAAGGCTTCTGCAAGATC  
TGGAAAAAGCAAAAAAGAAAACCTTAGCTGAAATCAACAAAAATGGAATTTAGAGGC  
AGAAAAAGAAGATGGTGAATTTGACTCCAAGAGGAATCTAAGCAAAAGCTGGTATCCTT  
CTGTAGCCAACCTCTGTTATCTCCAGTCTCAGATAAATGGTGAAATAGACTTACTAGC  
AAGTGGCTCCTTGACAGAATCTGAATGTTTTGGAAGTTAACTGAAGTCTCTTACCATT  
GGCTGAGCAAAATAGAGTCTCCAGACACTAAGAGCAGGAATGAAGTAGTGACTCCTGAGAA  
GGTCTGCAAAAATATCTTACATCTAAGAAATCTTTGCCATTAGAAAATAATGGAACCG  
TGGCCATCACAATAGACTTTCCAGTCCCATTCTAAGAGATGTAGAACCAGCATTCTGAG  
CACCAGTGAGATTTTGTAAAGCAACGGTGCCCTCAGAAAATATACCATTGCCTGAATG  
TTCTTACCACCTTCATGCAACGTAAGTTGGTGGTACATCAGGGAGCAAAAACAGTAA  
CATGTCGGATGAATTCATTAGTCTTTCACCAGGTACACCACCTTCTACATTAAGTAGTTC  
AAGTTACAGGCGAGTGATGTCTAGTCCCTCAGCAATGAAGCTGTTGCCCAATATGGCTGT  
GAAAAGAATCATAGAGGAGAGACTTTGCTCCATATTGCTTCTATTAAGGGCGACATACC  
TTCTGTTGAATACCTTTTACAAAATGGAAGTGATCCAAATGTTAAAGACCATGCTGGATG  
GACACCATTGCATGAAGCTTGAATCATGGGCACCTGAAGGTAGTGAATATTGCTCCA  
GCATAAGGCATTGGTGAACACCACCGGTATCAAAATGACTCACCCTTCCAGATGCAGC  
CAAGAATGGGCACGTGGATATAGTCAAGCTGTTACTTTCCATGGAGCCTCCAGAAATGC  
TGTTAATATATTTGGTCTGCGCCCTGTCGATTATACAGATGATGAAAGTATGAAATCGCT  
ATTGCTGTACCAGAGAAGAATGAATCATCCTCAGCTAGCCACTGCTCAGTAATGAACAC  
TGGGCAGCGTAGGGATGGACCTTGTACTTATAGGCAGTGGGCTGTCTCAGAACAAACA  
GAAAATGCTCAGTGAGCTTGCAATCTTAAGGCTAAAAAATACTGAGTTTGACAG  
TACAGTAACTCATGTTGTTGTTCTTGGTGTGATGCAGTTCAAAGTACCTTGAAGTGTATGCT  
TGGGATTTCTAATGGATGCTGGATTCTAAAATTTGAATGGGTAAGCATGTCTACGAAG  
AAAAGTATGTGAACAGGAAGAAAAGTATGAAATTCCTGAAGGTCCACGCAGAACGAGGCT  
CAACAGAGAACAGCTGTTGCCAAAGCTGTTTGTGATGGATGCTACTTCTATTTGGGGAAC  
CTTCAAACACCATCCAAAGGACAACCTTATTAAGCTCGTACTGCAGGTGGGGCCAGAT  
CCTCAGTAGAAAGCCCAAGCCAGACAGTGACGTGACTCAGACCATCAATACAGTCGCATA  
CCATGCGAGACCCGATTCTGATCAGCGCTTCTGCACACAGTATATCATCTATGAAGATTT  
GTGTAATTATACCCAGAGAGGGTTCGGCAGGGCAAAAGTCTGGAAGGCTCCTTCGAGCTG  
GTTTATAGACTGTGTGATGTCCTTTGAGTTGCTTCTTGTGACAGCTGAATATTATACCA  
GATGAACATTTCAAATTTGAATTTGCACGGTTTGTGAGAGCCAGTCATTGTACTGTTTTT  
AATGTTACATTTTTACAAATAGGTAGAGTCATTCATATTTGCTTTGAATCAAAAAAAA  
AAAAAAAACCTCGAC

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_000465 unedited  GGAATTTGTATACGACTCCTATAGGCGGCCGGAATTCGGCACGAGGCTTGGCCGTTTC  GAGTCGCTGACCTGCAGCTTCCCTGTGGTTTTCCGAGGCCTCCTTGCTTCCCGCTCTCCG  AGGAGCCTTTTCATCCGAAGGCGGGACGATGCCGGATAATCGGCAGCCGAGAACCGGCAG  CCGAGGATCCGCTCCGGGAACGAGCCTCGTTCGCGCCCGCCATGGAACCGGATGGTCGC  GGTCCCTGGGCCACAGTCGCGCCGCGCTCGACCCTGGAGAAGCTGCTGCGCTGCTCG  CGTTGTACTAACATTCTGAGAGAGCCTGTGTGTTTAGGAGGATGTGAGCACATCTTCTGT  AGTAATTGTGTAAGTGAAGTGCATTGGAAGTGGATGTCCAGTGTGTACACCCCGCCTGG  ATACAAGACTTGAAGATAAATAGACAAGTGGACAGCATGATTCAACTTTGTAGTAAGCTT  CGAAATTTGCTACATGACAATGAGCTGTGAGATTTGAAAGAAGATAAACCTAGGAAAAGT  TTGTTTAAATGATGCAGGAAACAAGAAGATTCAATTAATGTTGTTAGCCCTCGAAGT  AAGAAAGTCAGATATGTTGTGAGTAAAGCTTCAGTGCAAACCCAGCCTGCAATAAAAAA  GATGCAAGTGCTCAGCAAGACTCATATGAATTTGTTTCCCAAGTCTCCTGCAGATGTT  TCTGAGAGGGCTAAAAAGCTTCTGNCAGATCTGNNAAAAAGCANAAAAAGAAACTTTAG  CTGAAATCAACAAAAATGGAATTTAGAGGCAGAAAAAGAGATGGTGAATTTGACTCCCAA  GAGAAATCTAGCAAAGCTGGTATCCTTCTGTAGCCACCATCTGTTATCTCCAGTCTCAG  ATAAATGGTGAATAGACTACTAGCAGTGCTCCTGACA</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_000465 unedited  CGGCCGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTGGATTCAAANACAAATATGAAT  GACTCTACCTATTTGAAAAATGTGAACATTAACAAACAGTACAATGACTGGGCTCTCACA  AACCGTGCAAATTCATTTGAAATGTTTCATCTGGTATAATATTCAGCTGTCAAGAGGAAG  CAACTCAAAGGACATCACACAGTCTATAAACACAGCTCGAAGGAGCCTTCCAGACTTTGCC  CTGCCGAACCCTCTCTGGGTGATAATTACACAAATCTTCATAGATGATATACTGTGTGCA  GAAGCGCTGATCAGAATCGGGTCTCGCATGGTATGCGACTGTATTGATGGTCTGAGTAC  GTCAGTGTCTGGCTTGGGCTTTCTACTGAGGATCTGGCCCCACCTGCAGTGACGAGCTT  AATAAGTTGTCCTTTGGATGGTGTGTTGAAAGTTCCCCACAAATAGAAGTAGCATCCATC  AAACAGCTTTGGCAACAGCTGTTCTCTGTTGAGCCTGCTCTGCGTGGACCTTCAGGAAT  TTCATATTTTTCTCTCTGTTACATACTTTTCTCGTAGACATGCTTTTACCATTCAA  TTTTAGAATCCAGCATCCATTGAGAATCCCAAGCATACTTCAAGGTACTTTGAACTGC  ATCACCAGGAACAACAACATGAGTTACTGTACTGTCAAACCTCAGTATATTTTTAGCCTT  AAGAATTAAGTGNAGCTCACTGAGCATTCTGTTGTTCTGAAGACAGCCCACTGCCTAT  AAGTACAAGAGGTCCATCCCTACGCTGCCAGTGTTCATTACTGAACAGTGGCTAGCTGA  AGATGATTCACTTCTCTCTGGTAGCAGCAATAGCCGATTCATACCTTTATCATCTGTAT  AAACGACAGCCGAAACCAATATATAACAGCATTCTGGAGCTCCATAGAAAGAAAGCTT  GCTTTTTAGTGGCC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_000465
<b>Insert Size:</b>	2800 bp
<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).

**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\\_000465.1](#), [NP\\_000456.1](#)

**RefSeq Size:** 2530 bp

**RefSeq ORF:** 2334 bp

**Locus ID:** 580

**UniProt ID:** [Q99728](#)

**Cytogenetics:** 2q35

**Domains:** BRCT, ANK

**Protein Families:** Druggable Genome

**Gene Summary:** This gene encodes a protein which interacts with the N-terminal region of BRCA1. In addition to its ability to bind BRCA1 in vivo and in vitro, it shares homology with the 2 most conserved regions of BRCA1: the N-terminal RING motif and the C-terminal BRCT domain. The RING motif is a cysteine-rich sequence found in a variety of proteins that regulate cell growth, including the products of tumor suppressor genes and dominant protooncogenes. This protein also contains 3 tandem ankyrin repeats. The BARD1/BRCA1 interaction is disrupted by tumorigenic amino acid substitutions in BRCA1, implying that the formation of a stable complex between these proteins may be an essential aspect of BRCA1 tumor suppression. This protein may be the target of oncogenic mutations in breast or ovarian cancer. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2013]

Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.