

Product datasheet for **RC237026**

BARD1 (NM_001282549) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BARD1 (NM_001282549) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: BARD1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC237026 representing NM_001282549
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGGATAATCGGCAGCCGAGGAACCGGCAGCCGAGGATCCGCTCCGGGAACGAGCCTCGTTCGCGC
CCGCCATGGAACCGGATGGTCGGTGCCTGGGCCACAGTCGCGCCGCGCTCGACCGCTGGAGAAGCT
GCTGCGCTGCTCGCGTTGTAACATTCTGAGAGAGCCTGTGTGTTTAGGAGGATGTGAGCACATCTTC
TGTAAGTAAATTGTAAAGTGACTGCATTGGAAGTGGATGTCCAGTGTGTTACACCCCGCCTGGATACAAG
ACTTGAAGATAAATAGACAAGTGGACAGCATGATTCAACTTTGTAGTAAGCTTCGAAATTTGCTACATGA
CAATGAGCTGTCAGGGGTAAAAGCATGTCTACGAAGAAAAGTATGTGAACAGGAAGAAAAGTATGAAATT
CCTGAAGGTCCACGCAGAAGCAGGCTCAACAGAGAACAGCTGTTGCCAAAGCTGTTTGTGGATGCTACT
TCTATTTGTGGGAACCTTCAAACACCATCAAAGGACAACCTTATTAAGCTCGTCACTGCAGGTGGGG
CCAGATCCTCAGTAGAAAGCCCAAGCCAGACAGTACGCTGACTCAGACCATCAATACAGTCGCATACCAT
GCGAGACCCGATTCTGATCAGCGCTTCTGCACACAGTATATCATCTATGAAGATTTGTGTAATTATCACC
CAGAGAGGGTTCCGCAGGCAAAGTCTGGAAGGCTCCTTCGAGCTGGTTATAGACTGTGTGATGTCCTT
TGAGTTGCTTCTTTGACAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

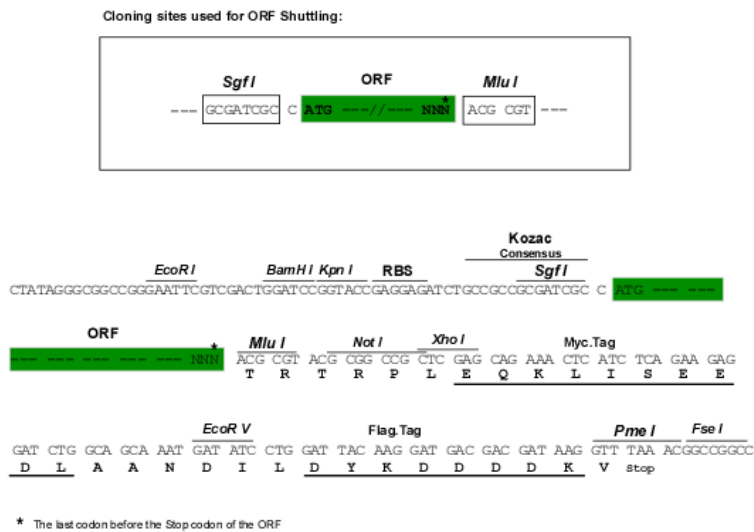
Protein Sequence: >RC237026 representing NM_001282549
 Red=Cloning site Green=Tags(s)

MPDNRQPRNRQPRIRSGNEPR SAPAMEPDGRGAWAHSRAALDRLEKLLRCSRCTNILREPVCLGGCEHIF
 CSNCVSDCIGTGCPVCYTPAWIQDLKINRQLDSMIQLCSKLRNLLHDNELSGVKACLRRKVCQEKEKYEI
 PEGPRRSRLNREQLLPKLFDGCYFYLWGTFKHHPKDNLIKLVTAGGGQILSRKPKPDSVDTQTINTVAYH
 ARPDSDQRFCTQYIIYEDLCNYHPERVRQGKVKWAPSSWFIDCVMSFELLPLDS

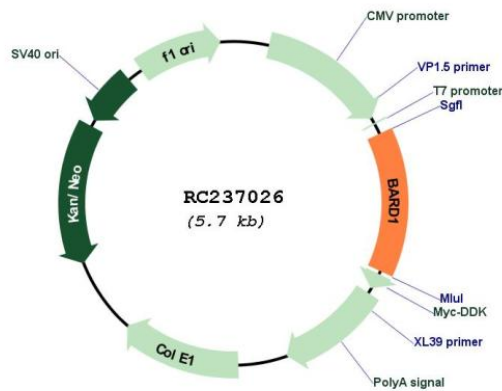
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282549

ORF Size: 792 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:	<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:	NM_001282549.2
RefSeq Size:	3984 bp
RefSeq ORF:	795 bp
Locus ID:	580
Cytogenetics:	2q35
Protein Families:	Druggable Genome
MW:	30.8 kDa
Gene Summary:	<p>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]</p>