

Product datasheet for **RG211511**

BARD1 (NM_000465) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BARD1 (NM_000465) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BARD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG211511 representing NM_000465
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCGGATAATCGGCAGCCGAGGAACCGGCAGCCGAGGATCCGCTCCGGGAACGAGCCTCGTTCGCGCC
 CCGCCATGGAACCGGATGGTCGGTGCCTGGGCCACAGTCGCGCCGCGCTCGACCGCCTGGAGAAGCT
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

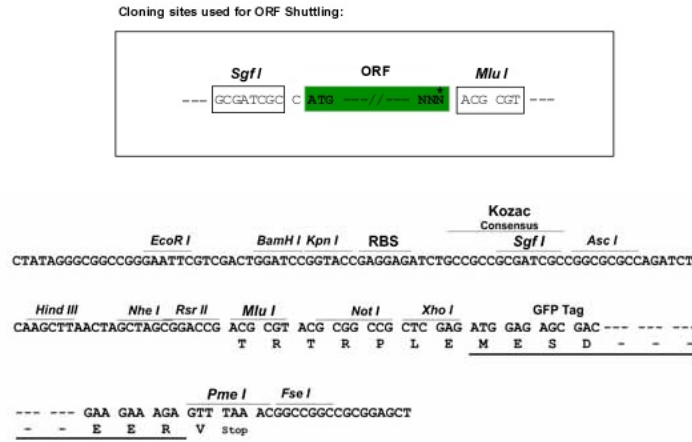
Protein Sequence: >RG211511 representing NM_000465
 Red=Cloning site Green=Tags(s)

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MPDNRQPRNRQPRIRSGNEPR SAPAMEPDGRGAWAHSRAALDRLEKLLRCSRCTNILREPVCLGGCEHIF
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NSIKMWFSPRSKKVRYVVS KASVQTQPAIKKDASAQQDSYEFVSPSPADV SERAKKASARS GKQKKKT
LAEINQKWNLEAEKEDGEFDSKEESKQKLVSFCSQPSVIVSSPQINGEIDLLASGSLTESECFGSLTEVSL
PLAEQIESPDTKSRNEVVTPEKVCKNYLT SKKSLPLENNGKRGHHRNLS SPSISKRCRTSILSTSGDFVKQ
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GYQNDSP LHDAAKNGHVDIVKLLL SYGASRNAVINIFGLRPVDYTDDESMKSL LLLPEKNSSSASHCSVM
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LKFEWVKA CLRKRVCEQEEKYEIPEGPRRSRLNREQLLPKLF DGCYFYLWGTFFKHHPKDNLIKLVTAGGG
QILSRKPKPDS DVTQTINTVAYHARPDSDQRFC TQYI IYEDLCNYHPERVVRQGVWKAPSSWFIDCVMSF
ELLPLDS
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000465
ORF Size: 2331 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:

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](#)

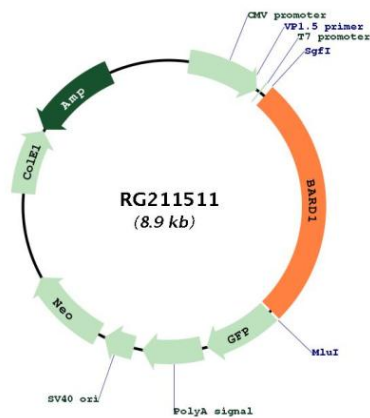
Cytogenetics: 2q35

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]

Product images:


Circular map for RG211511