

Product datasheet for **RC224085**

BRIP1 (NM_032043) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BRIP1 (NM_032043) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: BRIP1
Synonyms: BACH1; FANCI; OF
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC224085 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCTCAATGTGGTCTGAATATACAATTGGTGGGGTGAAGATTTACTTTCCTTATAAAGCTTACCCGT
CACAGCTTGCTATGATGAATTCTATTCTCAGAGGATTAACAGCAAGCAACATTGTTTGTGGAGAGTCC
CACAGGAAGTGGAAAAAGCTTAGCCTTACTTTGTTCTGCTTAGCATGGCAACAATCTCTTAGTGGGAAA
CCAGCAGATGAGGGCGTAAGTAAAAAGCTGAAGTACAATTGTCATGTTGTTGTGCATGCCATTCAAAGG
ATTTTACAAACAATGACATGAACCAAGGAACCTCACGTCAATTTCAACTATCCAAGCACACCACCTTCTGA
AAGAAATGGCACTTCATCAACTTGTCAAGACTCCCTGAAAAACCACTCTGGCTGCAAAGTTATCTGCT
AAGAAACAGGCATCCATATACAGAGATGAAATGATGATTTTCAAGTAGAGAAGAAAAGAATTCCGACCT
TAGAAACTACACAGCAGATTAGAAAACGTCATTGCTTTGGAAACAGAAGTACACAATTTGGATGCAAAGT
TGATTCAGGAAAGACTGTAAAACCACTCTCCACTGGAAAAGATAAACTCCTTTTCGCCACAGAAACCC
CCTGGCCACTGTTCTAGGTGCTGTTGTTCTACTAAACAAGGAAACAGTCAAGAGTCATCGAATACCATTA
AGAAGGATCATACAGGAAATCCAAGATACCCAAAATATATTTTGGGACACGCACACACAAGCAGATTGC
TCAGATTACTAGAGACTCCGGAGGACGGCATATTCAGGGTTCCAATGACTATTTCTTCCAGCAGGGAT
CATACTTGTGCCATCTGAGGTAGTCGGTAACCTCAACAGAAATGAGAAGTGCATGGAATTGCTAGATG
GGAAAAACGGAAAAATCCTGCTATTTTTATCATGGAGTTCATAAAATTAGTGATCAGCACACATTACAGAC
TTTCCAAGGGATGTGCAAAGCCTGGGATATAGAAGAACTTGTCAGCCTGGGGAAGAACTAAAGGCCTGT
CCATATTACAGCCCGAGAATAATACAAGATGCTGACATCATTTTTGTCCCTACAATATCTTCTAG
ATGCACAAATAAGGGAAAGTATGGATTTAAATCTGAAAGAACAGTTGTCAATTTAGATGAAGCTCATAA
CATCGAGGACTGTGCTCGGGAATCAGCAAGTTACAGTGTAAACAGAAAGTTACAGTTCGGTTTGTGCTGGGAT
GAACTAGATAGTATGGTCAACAATAATAAGGAAGAAAGATCATGAACCCCTACGAGCTGTGTGCTGTA
GCCTCATTAATTGGTTAGAAGCAAACGCTGAATATCTTGTAGAAAGAGATTATGAATCAGCTTGAAAAAT
ATGGAGTGGAAATGAAATGCTCTTAACTTTACACAAAATGGGTATCACCCTGCTACTTTTCCCATTG



[View online >](#)

CAGGGACATTTTTCTGCTGTTCTTCAAAAAGAGGAAAAATCTACCAATTTATGGTAAAGAGGAGGCAA
GAGAAGTACCTGTTATTAGTGCATCAACTCAAATAATGCTTAAAGGACTTTTTATGGTACTTGACTATCT
TTTTAGGCAAAAATAGCAGATTTGCAGATGATTATAAAATTGCGATTCAACAGACTTACTCCTGGACAAA
CAGATTGATATTTAGACAAAAATGGGTTGTTGGTTCTACCAAAAAAAGAAACGTTTACGACAGAAAA
CTGCAGTTCATGTGCTAACTTTTGGTGCTTAAATCCAGCTGTGGCCTTTTCAGATTAATGGCAAAGT
TCAGACCATTGTTTTGACATCTGGTACATTATCACCAATGAAATCCTTTTCGTCAGAATTTGGTGTACA
TTTACTATCCAGCTGGAGGCTAATCATATCATTAAAAATTCACAGGTTTGGGTTGGTACCATTGGGTGAG
GCCCAAGGGTCGGAATCTCTGTGTACCTTCCAGAACTGAAACATTTGAGTTCCAAGATGAAGTGGG
AGCACTTTTGTTATCTGTGTGCCAGACTGTGAGCCAAGGAATTTTGTGTTTCTTGCCATCTTACAAGTTA
TTAGAAAAATTAAGAAGCAGTTGGCTCTCTACTGGTTTATGGCATAATCTGGAGTTGGTGAAGACAGTCA
TTGTAGAACCACAGGGAGGAGAAAAACAATTTTATGTAATTACTGCAGGTGACTATGACGCAATCAA
ATACAAAGGAGAGAAAGATGGAGCTCTCCTGGTAGCAGTTTGTGCGTAAAGTGAAGTGGGTTGGAT
TTCTCAGATGACAATGCCCGTGTGTATAACAATAGGAATCCTTTTCAAATGTGAAAGATCTACAGG
TTGAACTAAAACGACAATACAATGACCACCATTAAAAATGAGAGGCTTCTACCTGGCCGTGAGTGGTA
TGAAATCAAGCATAAGGGCCTTAAACCAGGCCCTTGGTAGATGTATTAGACACAGAAATGATTGGGGA
GCTCTTATTCTAGTGGATGATCGCTTTAGGAATAACCCAAGTCGTATATCTGGACTTTCTAAATGGG
TACGGCAGCAGATTACAGACCATTCAACCTTTGAAAGTGCAGTGGAGTCTTGGCTGAATTTTCAAAAA
GCATCAAAAAGTTCTTAATGTATCCATAAAGGACAGAACCAATATACAGGACAATGAGTCTACACTTGAA
GTGACCTCTTTAAAGTACAGTACCCACCTTATTTACTGGAAGCAGCAAGTCATCTATCACCAGAAAATT
TTGTGGAAGATGAAGCAAAGATATGTGTCCAGGAACTACAGTGTCTTAAATTTACCAAAAATCACC
TCTACCAAGTAGCATTATCTCCAGAAAGGAGAAAAATGATCCAGTATTCTGGAAGAAGCAGGGAAAGCA
GAAAAAATTTGATTTCCAGATCCACAAGCCCACTTTCAACAAACAAACAAAGAGAGTTAGCTGGTCAA
GCTTTAATTTCTTTGGACAGTATTTTACTGGTAAAATACCGAAGGCAACACCTGAGCTCGGGTTCATCAGA
GAATAGTGCCTCTAGTCCTCCCGTTTTCAAAACAGAGAAGATGGAAAGTAAAAGTGTGTTTGCCTTCACT
GATAAATGTGAATCCTCAAATCTGACAGTAAACACATCGTTTGGATCATGCCCTCAATCAGAAACCATTA
TTTCATCATTAAGATTGATGCCACCCTTACTAGAAAAATCATTCTGAACATCCGCTCTGTTCTGAAGA
AGCCCTGGATCCAGACATTGAATTGTCTCTAGTAAGTGAAGAAGATAAACAGTCCACTTCAAATAGAGAT
TTTGAACAGAAGCAGAAGATGAATCTATCTATTTTACACCTGAACTTTACGATCCTGAAGATACAGATG
AAGAAAAAATGACCTAGCTGAACTGATAGAGGAAATAGATTGGCTAACAATTCAGATTGCATTTTAGC
TAAAGACCTTTTTGAAATTAGAATATAAAGAAGTAGATTAGCCAGAGAAGTGAAGCTGAGGATTGC
ATAGATACAAAGTTGAATGGAATTCTGCATATTGAAGAAAGTAAAATTTGATGACATTGATGGTAATGTAA
AAACAATTTGGATAAATGAACTGGAAGTGGGAAAAACTCATGAAATAGAATAAAGAAGTTAAACCATC
TCCTTCAAAAATAAAGGCATGTTTCTGGTTTTAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224085 protein sequence
 Red=Cloning site Green=Tags(s)

```
MSSMWSEYTIIGGVKIYFPYKAYPSQLAMMNSILRGLNSKQHCLLESPTGSGKSLALLCSALAWQQSLSGK
PADEGVSEKAEVQLSCCCACHSKDFTNNDMNQGTSRHFNYPSTPPSERNGTSSTCQDSPEKTTAAKLSA
KKQASIYRDENDDFQVEKKRIRPLETTQQIRKRHCFGEVHNLDKAVDSGKTVKLNPLEKINSFSPQKP
PGHCSRCCSTKQNSQESSNTIKKDHTGKSKIPKIYFGTRTHKQIAQITRELRRRTAYSGVPMITLSSRD
HTCVHPEVVGNFNRNEKCELLDGNKNGKSCYFYHGVHKISDQHTLQTFQGMCKAWDIEELVSLGKKLKAC
PYYTARELIQDADIIFCPYNYLLDAQIRESMDLNLKEQVVILDEAHNIEDCARESASYSVTEVQLRFARD
ELDSMVNNIRKKDHEPLRAVCCSLINWLEANAAYLVERDYESACKIWSGNEMLLTLHKMGITTATFPIL
QGHFSAVLQKEEKISPIYGKEEAREVPVISASTQIMLKGLFMVLDYLFQNSRFADYKIAIQQYTSWTN
QIDISDKNGLLVLPKNKRSRQKTAVHVLNFWCLNPAVAFSDINGKVQTIIVLTSGLSPMKFSSELGVT
FTIQLEANHIKNSQVWVGTIGSGPKGRNLCATFQNTETFEFQDEVGALLSVCQTVSQGILCFLPSYKL
LEKLERWLSTGLWHNLELVKTVIVEPQGGEKTNFDELLQVYVDAIKYKGEKDGALLVAVCRGKVSEGLD
FSDDNARAVITIGIPFPNVKDLQVELKRQYNDHHSKLRGLLPGRQWYEQIAYRALNQALGRCIRHRNDWG
ALILVDDRFRNNSRYISGLSKWVRQIQHHSFESALESLAEFSKKHQKVLNVSIKDRNTIQDNESTLE
VTSLKYSTPPYLLEAASHLSPENFVEDEAKICVQELQCPKIITKNSPLPSSIIISRKEKNDPVLLEAGKA
EKIVISRSTSPFNKQTKRVSWSFNSLGQYFTGKIPKATPELGSSENSASSPPRFKTEKMEKTVLPFT
DKCESSNLTVNTSFGSCPQSETIISLKLIDATLTRKNHSEHPLCSEEALDPDIELSLVSEEDKQSTSNRD
FETEAEDESIYFPELYDPEDTDEEKNDLAETDRGNRLANNSDCILAKDLFEIRTIKEVDSAREVKAEDC
IDTKLNGILHIEESKIDDIDGNVKTWINELGKTHEIEIKNFKSPSKNKGMPFGK
```

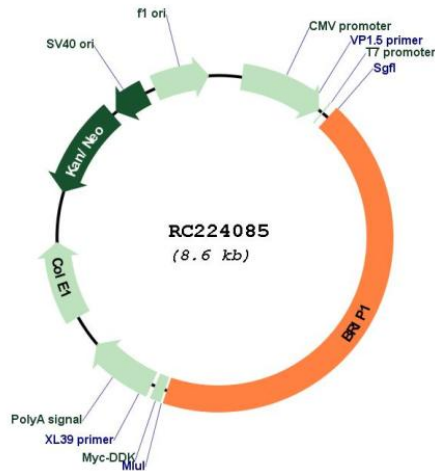
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6677_a12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_032043

ORF Size: 3747 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:

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_032043.1](#), [NP_114432.1](#)

RefSeq Size: 8166 bp

RefSeq ORF: 3750 bp

Locus ID: 83990

UniProt ID: [Q9BX63](#)

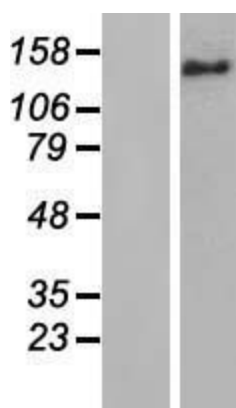
Cytogenetics: 17q23.2

Protein Families: Druggable Genome

MW: 140.9 kDa

Gene Summary: The protein encoded by this gene is a member of the RecQ DEAH helicase family and interacts with the BRCT repeats of breast cancer, type 1 (BRCA1). The bound complex is important in the normal double-strand break repair function of breast cancer, type 1 (BRCA1). This gene may be a target of germline cancer-inducing mutations. [provided by RefSeq, Jul 2008]

Product images:



Western blot validation of overexpression lysate (Cat# [LY410352]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224085 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).