

Product datasheet for **RG224085**

BRIP1 (NM_032043) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BRIP1 (NM_032043) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BRIP1
Synonyms:	BACH1; FANCJ; OF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224085 representing NM_032043 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCTCAATGTGGTCTGAATATACAATTGGTGGGGTGAAGATTTACTTTCCTTATAAAGCTTACCCGT
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CAGGGACATTTTTCTGCTGTTCTTCAAAAAGAGGAAAAATCTACCAATTTATGGTAAAGAGGAGGCAA
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TCCTTCAAAAATAAAGGCATGTTTCTGGTTTTAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG224085 representing NM_032043
 Red=Cloning site Green=Tags(s)

MSSMWSEYTIIGGVKIYFPYKAYPSQLAMMNSILRGLNSKQHCLLESPTGSGKSLALLCSALAWQQSLSGK
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 VTSLKYSTPPYLLEAASHLSPENFVEDEAKICVQELQCPKIITKNSPLPSSIIISRKEKNDPVLLEEAGKA
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 FETEAEDESIYFTPELYDPEDTDEEKNDLAETDRGNRLANNSDCILAKDLFEIRTIKEVDSAREVKAEDC
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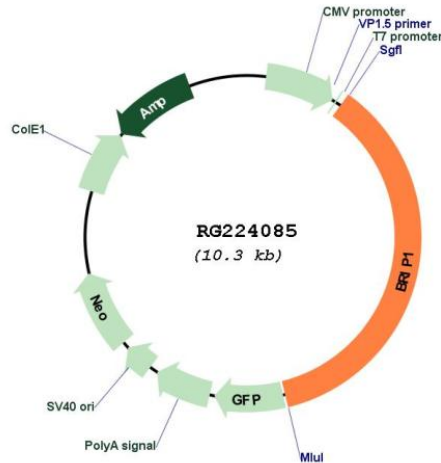
TRTRPLE - GFP Tag - V

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: 4563 bp

RefSeq ORF: 3750 bp

Locus ID: 83990

UniProt ID: [Q9BX63](#)

Cytogenetics: 17q23.2

Protein Families: Druggable Genome

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]