

## Product datasheet for RC232617

### BRCC45 (BRE) (NM\_001261840) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	BRCC45 (BRE) (NM_001261840) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BRCC45
Synonyms:	BRCC4; BRCC45; BRE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC232617 representing NM_001261840 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCCCAGAAGTGGCCTTGAACCGAATATCTCCAATGCTCTCCCTTTTCATATCTAGCGTGGTCCGGA  
ATGGAAAAGTGGGACTGGATGCTACAACTGTTTGAGGATAACTGACTTAAAATCTGGCTGCACATCATT  
GACTCTGGGCCCAACTGTGACCGATTTAACTGCACATACCATATGCTGGAGAGACATTAAGTGGGAT  
ATCATTTCATGCCCAATACCCAGAAGTGCCTCCCGATTTTATCTTTGGAGAAGATGCTGAATTCCTGC  
CAGACCCCTCAGCTTTGCAGAATCTTGCTCCTGGAATCCTTCAAATCCTGAATGTCTTACTTGTGGT  
GAAGGAACTTGTGCAACAATATACCAATTCCAATGTAGCCGCTCCGGGAGAGCTCCCGCTCATGTTT  
GAATACCAGACATTACTGGAGGACCCAGTATGGAGAGAACATGGAAATTTATGCTGGGAAAAAACA  
ACTGGACTGGTGAATTTTCAGCTCGTTTCTTTTGAAGCTGCCCGTAGATTTTCAGCAATATCCCCACATA  
CCTTCTCAAGGATGTAATGAAGACCCTGGAGAAGATGTGGCCCTCCTCTCTGTTAGTTTGGAGCACT  
GAAGCCACCCAGGTGTACCCCAAGCTGTACTTGTACCTCGAATTGAGCATGCACCTGGAGGCTCCTCAG  
CTCTTCATATCCAGCTTTTCCAGGAGGAGGATGTCTCATTGATTACGTTCCCTCAAGTATGCCACCTGCT  
CACCAACAAGGTGCAGTACGTGATTCAAGGGTATCACAAAAGAAGAGAGTATATTGCTGCTTTTCTCAGT  
CACTTTGGCACAGGTGCTGGAATATGATGCAGAAGGCTTTACAAAACACTCTGCTGCTGATGTGGA  
AAGATTTTGTCTTGTACACATTGACCTGCCTCTGTTTTTCCCTCGAGACCAGCCAACCTCTCACATT  
TCAGTCCGTTTATCACTTTACCAACAGTGGACAGCTTTACTCCAGGCCCAAAAAATTATCCGTACAGC  
CCCAGATGGGATGAAATGAAATGGCCAAAAGAGCAAATCCAGGAGGCAGCATTGCCAATGGAAGCT  
CTAGGAAACACCACTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RC232617 representing NM\_001261840  
Red=Cloning site Green=Tags(s)

MSPEVALNRISPMLSPFISSVVRNGKVGLDATNCLRITDLKSGCTSLTPGPNCDRFKLHIPPYAGETLKWD  
 IIFNAQYPELPPDFIFGEDAEFLPDPALQNLASWNPSNPECLLLVVKELVQYHQFQCSRLRESSRLMF  
 EYQTLLEEPQYGENMEIYAGKKNWTGEF SARFLLKLPVDFSNIPTYLLKDVNEDPGEDVALLSVSFEDT  
 EATQVYPKLYLSPRIEHALGGSSALHIPAFPPGGCLIDYVPQVCHLLTNKVQYVIQGYHKRREYIAAFLS  
 HFGTGVEYDAEGFTKLLTLLMWKDFCFLVHIDLPLFFPRDQPTLTFQSVYHFTNSGQLYSQAQKNYPYS  
 PRWDGNEMAKRANSRRQHLPMESSRKHQS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001261840

**ORF Size:** 1137 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\\_001261840.2](#)

**RefSeq Size:** 1776 bp

**RefSeq ORF:** 1140 bp

**Locus ID:** 9577

**UniProt ID:** [Q9NXR7](#)

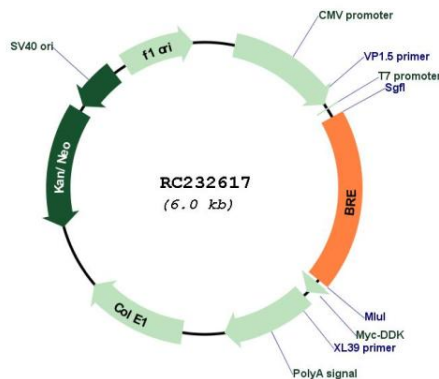
**Cytogenetics:** 2p23.2

**Protein Families:** Druggable Genome

**MW:** 43.7 kDa

**Gene Summary:** This gene encodes an anti-apoptotic, death receptor-associated protein that interacts with tumor necrosis factor-receptor-1. The encoded protein acts as an adapter in several protein complexes, including the BRCA1-A complex and the BRISC complex. The BRCA1-A complex possesses ubiquitinase activity and targets sites of double strand DNA breaks, while the BRISC complex exhibits deubiquitinase activity and is involved in mitotic spindle assembly. This gene is upregulated in several types of cancer. [provided by RefSeq, Jun 2016]

### Product images:



Circular map for RC232617