

Product datasheet for **RC224289**

BRCC36 (BRCC3) (NM_001018055) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BRCC36 (BRCC3) (NM_001018055) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: BRCC36
Synonyms: BRCC36; C6.1A; CXorf53
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC224289 representing NM_001018055
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGGTGCAGGTGGTGCAGGCGGTGCAGGCGGTTTCATCTCGAGTCTGACGCTTTCCTCGTTTGTCTCA
ACCACGCTCTGAGCACAGAGAAGGAGGAAGTAATGGGGCTGTGCATAGGGGAGTTGAACGATGATACAAG
GAGTGACTCCAAATTTGCATATACTGGAAGTAAATGCGCACAGTTGCTGAAAAGTTGATGCCGTCAGA
ATTGTTACATTCATTCTGTCATCATCTTACGACGTTCTGATAAGAGGAAGGACCGAGTAGAAATTTCTC
CAGAGCAGCTGTCTGCAGCTTCAACAGAGGCAGAGAGGTTGGCTGAACTGACAGGCCGCCCATGAGAGT
TGTGGGCTGGTATCATTCCCATCCTCATATAACTGTTTGGCCTTACATGTTGATGTTCCGACACAAGCC
ATGTACCAGATGATGGATCAAGGCTTGTAGGACTTATTTTTTCTGTTTCATAGAAGATAAGAACAACAA
AGACTGGCCGGTACTCTACACTTGCTTCCAATCCATACAGGCCAAAAGAGTTCAGAGTATGAGAGAAT
CGAAATCCCAATCCATATTGTACCTCATGTCACTATCGGGAAAGTGTGCCTTGAATCAGCAGTAGAGCTG
CCAAGATCCTGTGCCAGGAGGAGCAGGATGCGTATAGGAGGATCCACAGCCTTACACATCTGGACTCAG
TAACCAAGATCCATAATGGCTCAGTGTTTACCAAGAATCTGTGCAGTCAGATGTCGGCAGTCAGCGGGCC
TCTCTACAGTGGTTGGAGGACAGACTGGAGCAAAACCAACAGCATTTCAGGAATTACAACAAGAAAAG
GAAGAGCTTATGCAAGAACTTTCTCTAGAA

**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA**



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Protein Sequence: >RC224289 representing NM_001018055
Red=Cloning site Green=Tags(s)

MAVQVVQAVQAVHLESDAFLVCLNHALSTEKEEVMGLCIGELNDDTRSDSKFAYTGEMRTVAEKVDAVR
 IVHIHSVILRRSDKRKRDRVEISPEQLSAASTEAEERLAELTGRPMRVVGVYHSHPHITVWPSHVDVRTQA
 MYQMMDQGFVGLIFSCFIEDKNTKTGRVLYTCFQSIQAQKSSEYERIEIPIHIVPHVTIGKVCLESVEL
 PKILCQEEQDAYRRIHSLTHLDSVTKIHNGSVFTKNLCSQMSAVSGPLLQWLEDRLEQNQQHLQELQQEK
 EELMQELSSLE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8050_a01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001018055

ORF Size: 873 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_001018055.3](#)

RefSeq Size: 2839 bp

RefSeq ORF: 876 bp

Locus ID: 79184

UniProt ID: [P46736](#)

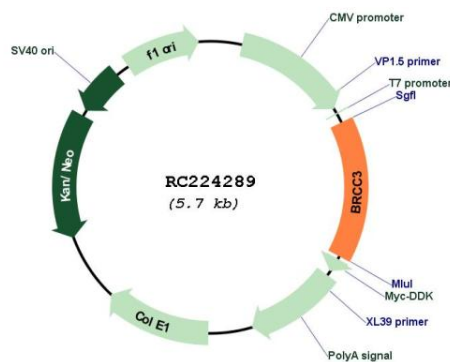
Cytogenetics: Xq28

Protein Families: Druggable Genome, Protease

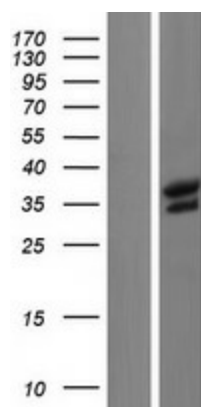
MW: 33 kDa

Gene Summary: This gene encodes a subunit of the BRCA1-BRCA2-containing complex (BRCC), which is an E3 ubiquitin ligase. This complex plays a role in the DNA damage response, where it is responsible for the stable accumulation of BRCA1 at DNA break sites. The component encoded by this gene can specifically cleave Lys 63-linked polyubiquitin chains, and it regulates the abundance of these polyubiquitin chains in chromatin. The loss of this gene results in abnormal angiogenesis and is associated with syndromic moyamoya, a cerebrovascular angiopathy. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 5. [provided by RefSeq, Jun 2011]

Product images:



Circular map for RC224289



Western blot validation of overexpression lysate (Cat# [LY422709]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224289 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).