

Product datasheet for **RG233676**

BRCC36 (BRCC3) (NM_001242640) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BRCC36 (BRCC3) (NM_001242640) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: BRCC36
Synonyms: BRCC36; C6.1A; CXorf53
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG233676 representing NM_001242640
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGTGCAGGTGGTGCAGGCGGTGCAGGCGGTTTCATCTCGAGTCTGACGCTTTCCTCGTTTGTCTCA
ACCACGCTCTGAGCACAGAGAAGGAGGAAGTAATGGGGCTGTGCATAGGGGAGTTGAACGATGATACAAG
TAGGAGTGACTCCAAATTTGCATATACTGGAAGTAAAAGCGCACAGTTGCTGAAAAGGTTGATGCCGTC
AGAATTGTTACATTCATTCTGTCATCATCTTACGACGTTCTGATAAGAGGAAGGACCGAGTAGAAATTT
CTCCAGAGCAGCTGTCTGCAGCTTCAACAGAGGCAGAGAGTTGGCTGAACTGACAGGCCGCCCATGAG
AGTTGTGGGCTGGTATCATTCCCATCCTCATATAACTGTTTGGCCTTACATGTTGATGTTGCGACACAA
GCCATGTACCAGATGATGGATCAAGGCTTTGTAGGACTTATTTTTCTGTTTCATAGAAGATAAGAACA
CAAAGACTGGCCGGTACTCTACACTTGCTTCCAATCCATACAGGCCAAAAGAGTTCAGAGTATGAGAG
AATCGAAATCCCAATCCATATTGTACCTCATGTCACTATCGGGAAAGTGTGCCTTGAATCAGCAGTAGAG
CTGCCAAGATCCTGTGCCAGGAGGAGCAGGATGCGTATAGGAGGATCCACAGCCTTACACATCTGGACT
CAGTAACCAAGATCCATAATGGCTCAGTGTTTACCAAGAATCTGTGCAGTCAGATGTCGGCAGTCAGCGG
GCCTCTCTACAGTGGTTGGAGGACAGACTGGAGCAAAACCAACAGCATTTCAGGAATTACAACAAGAA
AAGGAAGAGCTTATGCAAGAACCTTCTTCTCTAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233676 representing NM_001242640
Red=Cloning site Green=Tags(s)

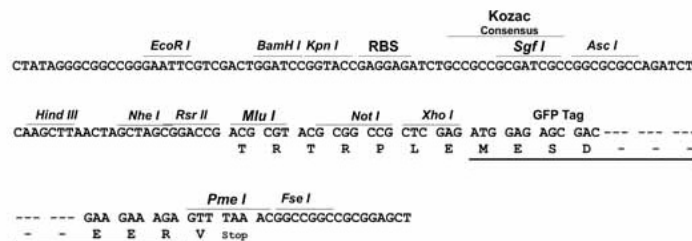
MAVQVVQAVQAVHLESDAFLVCLNHALSTEKEEVMGLCIGELNDDTSRSDSKFAYTGTEMRTVAEKVDAV
 RIVVHIHSVILRRSDKRRKDRVEISPEQLSAASTEAEERLAELTGRPMRVVGVYHSHPHITVWPSHVDVRTQ
 AMYQMDQGFVGLIFSCFIEDKNTKTGRVLYTCFQSIQAQKSSEYERIEIPIHIVPHVTIGKVCLESAVE
 LPKILCQEEQDAYRRIHSLTHLDSVTKIHNGSVFTKNLCSQMSAVSGPLLQWLEDRLQEQHLQELQQE
 KEELMQELSSLE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001242640

ORF Size: 876 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_001242640.1](#), [NP_001229569.1](#)

RefSeq Size: 2880 bp

RefSeq ORF: 879 bp

Locus ID: 79184

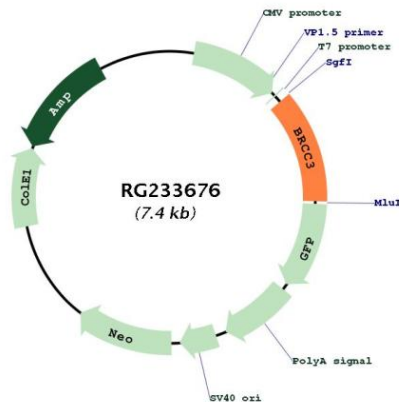
UniProt ID: [P46736](#)

Cytogenetics: Xq28

Protein Families: Druggable Genome, Protease

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 RG233676