

Product datasheet for **RG220795**

BCCIP (NM_016567) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BCCIP (NM_016567) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BCCIP
Synonyms:	TOK-1; TOK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220795 representing NM_016567 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTCCAGGTCTAAGCGCGTGCCGTGAAAGTGGGGTTCGCAGCCCGGATCCCCAGTCCAGC
GCGACGAGGAAGAGGAAAAAGAAGTCGAAAATGAGGATGAAGACGATGATGACAGTGACAAGAAAAAGGA
TGAAGAGGACGAGGTCATTGACGAGGAAGTGAATATTGAATTTGAAGCTTATTCCTATCAGATAATGAT
TATGACGGAATTAAGAAATTACTGCAGCAGCTTTTTCTAAAGGCTCCTGTGAACACTGCAGAACTAACAG
ATCTCTTAATTCAACAGAACCATTGGGAGTGTGATTAAGCAAACGGATGTTTCAGAAGACAGCAATGA
TGATATGGATGAAGATGAGGTTTTGGTTTCATAAGCCTTTTAAATTTAACTGAAAGAAAGGTACCCAG
TGTGTTGAACAAATTCAGAGTTGGTTCTACGCTTCTGTGAGAAGAACTGTGAAAAGAGCATGGTTGAAC
AGCTGGACAAGTTTTAAATGACACCACCAAGCCTGTGGGCTTCTCCTAAGTAAAAGATTCAATATGT
CCCTCCACAGATCGCTCTGCCCATGTACCAGCAGCTTCAGAAAGAACTGGCGGGGCACACAGAACCAAT
AAGCCATGTGGGAAGTGTACTTTTACCTTCTGATTAGTAAGACATTTGTGGAAGCAGGAAAAACAATT
CCAAAAAGAAACCTAGCAACAAAAAGAAAGCTGCGTTAATGTTTGCAAAATGCAGAGGAAGAATTTTCTA
TGAGGAGCAGGGAAAACCTGAGGTGCTTGGAGGTCCAGACACAAGAAGAGGATTGGAACCAAGTCCGATA
CAGCACAATGGTGGTTCACGGGGCAAGTGACAGCCCTGGTTTCTCTGAAGGCTGGACTAATTCATCAA
GATCAACTCTAAGTGATTTCCAGGGAACCTTCATGACTGTTGGAATTGCTCTGTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG220795 representing NM_016567
Red=Cloning site Green=Tags(s)

MASRSKRRAVESGVPQPPDPVQRDEEEKEVENEDDDSDKEKDEEVIDEEVNIEFEAYSLSNDND
 YDGIKLLQQLFLKAPVNTAELTDLLIQQNHIGSVIKQTDVSEDSNDMDDEVEFGFISLLNLTERKGTQ
 CVEQIQELVLRFCENCKESMVEQLDKFLNDTTKPVGLLLSERFINVPPQIALPMYQQLQKELAGAHRTN
 KPCGKCYFYLLISKTFVEAGKNNKPKPSNKKKAALMFANAEEFFYEEQKPEVLGGPDTRRGLPEVPI
 QHNGGSRGQVTALVSLKAGLIQSRSTLSDFQGTFTVGIALS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016567

ORF Size: 966 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_016567.4](#)

RefSeq Size: 1290 bp

RefSeq ORF: 969 bp

Locus ID: 56647

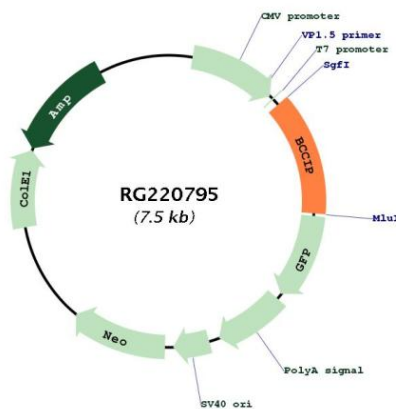
UniProt ID: [Q9P287](#)

Cytogenetics: 10q26.2

Protein Families: Druggable Genome, Stem cell - Pluripotency

Gene Summary: This gene product was isolated on the basis of its interaction with BRCA2 and p21 proteins. It is an evolutionarily conserved nuclear protein with multiple interacting domains. The N-terminal half shares moderate homology with regions of calmodulin and M-calpain, suggesting that it may also bind calcium. Functional studies indicate that this protein may be an important cofactor for BRCA2 in tumor suppression, and a modulator of CDK2 kinase activity via p21. This protein has also been implicated in the regulation of BRCA2 and RAD51 nuclear focus formation, double-strand break-induced homologous recombination, and cell cycle progression. Multiple transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG220795