

## Product datasheet for **RG203061**

### **BCCIP (NM\_078468) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** BCCIP (NM\_078468) 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:** >RG203061 representing NM\_078468  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGTCCAGGTCTAAGCGGCGTGCCGTGGAAAGTGGGGTCCGCAGCCCGGATCCCCAGTCCAGC  
 GCGACGAGGAAGAGGAAAAAGAAGTCGAAAATGAGGATGAAGACGATGATGACAGTGACAAGGAAAAAGGA  
 TGAAGAGGACGAGGTCATTGACGAGGAAGTGAATATTGAATTTGAAGCTTATCCCTATCAGATAATGAT  
 TATGACGGAATTAAGAAATTACTGCAGCAGCTTTTTCTAAAGGCTCCTGTGAACACTGCAGAATAACAG  
 ATCTCTTAATTCACAGAACCATTGGGAGTGTGATTAAGCAAACGGATGTTTCAGAAGACAGCAATGA  
 TGATATGGATGAAGATGAGGTTTTGGTTTCATAAGCCTTTTAAATTTAACTGAAAGAAAGGTACCCAG  
 TGTGTTGAACAAATTCAGAGTTGGTTCTACGCTTCTGTGAGAAGAACTGTGAAAAGAGCATGGTTGAAC  
 AGCTGGACAAGTTTTTAAATGACACCACCAAGCCTGTGGGCTTCTCCTAAGTAAAAGATTCAATATGT  
 CCCTCCACAGATCGCTCTGCCCATGTACCAGCAGCTTCAGAAAGAACTGGCGGGGCACACAGAACCAAT  
 AAGCCATGTGGGAAGTGTACTTTTACCTTCTGATTAGTAAGACATTTGTGGAAGCAGAAAAACAATT  
 CAAAAAGAAACCTAGCAACAAAAAGAAAGCTGCGTTAATGTTTGCAAAATGCAGAGGAAGAATTTTTCTA  
 TGAGAAGGCAATTCTCAAGTTCAACTACTCAGTGCAGGAGGAGAGCGACACTTGTCTGGGAGGCAATGG  
 TCTTTTGTGACGTACCAATGACGCCCTTGCGAAGTGTGATGTTAATCCAGGCGACAAGATGAACGAAA  
 TCATGGATAAACTGAAAGAATATCTATCTGTC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG203061 representing NM\_078468  
 Red=Cloning site Green=Tags(s)

MASRSKRRAVESGVPQPPDPVQRDEEEKEVENEDDDDDSDKEKDEEVIDEEVNIEFEAYSLSNDND  
 YDGIKLLQQLFLKAPVNTAELTDLLIQQNHIGSVIKQTDVSEDSNDMDDEVEVFGFISLLNLTERKGTQ  
 CVEIQIQLVLRFCENCKESMVEQLDKFLNDTTKPVGLLLSERFINVPPQIALPMYQQLQKELAGAHRTN  
 KPCGKCYFYLLISKTFVEAEKNNSKKKPSNKKKAALMFANAEEFFYEKAILKFNYSVQEEESDTCGLGKWS  
 SFDDVPMPLRVTMLIPGDKMNEIMDKLKEYLSV

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_078468

**ORF Size:** 942 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\\_078468.1](#), [NP\\_510868.1](#)

**RefSeq Size:** 1268 bp

**RefSeq ORF:** 945 bp

**Locus ID:** 56647

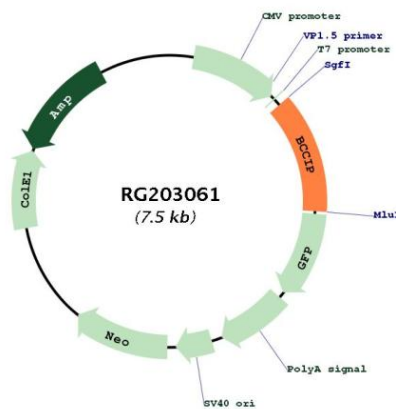
**UniProt ID:** [Q9P287](#)

**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 RG203061