

## Product datasheet for SC310535

### BCCIP (NM\_016567) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	BCCIP (NM_016567) Human Untagged Clone
Tag:	Tag Free
Symbol:	BCCIP
Synonyms:	TOK-1; TOK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC310535 representing NM_016567. Blue=Insert sequence Red=Cloning site Green=Tag(s)

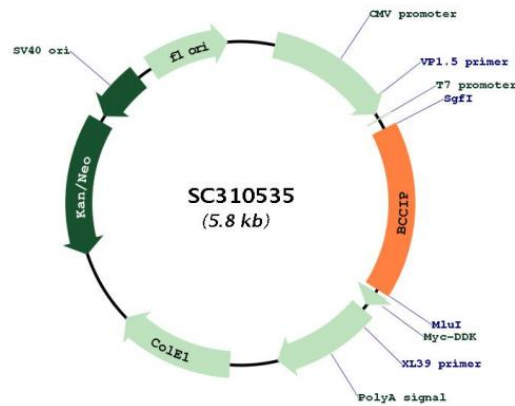
```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGCGTCCAGGTCTAAGCGCGTGCCGTGAAAAGTGGGGTTCGCGAGCCGCCGGATCCCCAGTCCAG
CGCGACGAGGAAGAGGAAAAAGAAGTCGAAAATGAGGATGAAGACGATGATGACAGTGACAAGGAAAAAG
GATGAAGAGGACGAGGTCAATGACGAGGAAGTGAATATTGAATTTGAAGCTTATTCCTATCAGATAAT
GATTATGACGGAATTAAGAAATTAAGTGCAGCAGCTTTTCTAAAGGCTCCTGTGAACACTGCAGAACTA
ACAGATCTCTTAATCAACAGAACCATATTGGGAGTGTGATTAAGCAAACGGATGTTTCAGAAGACAGC
AATGATGATATGGATGAAGATGAGGTTTTGGTTTCATAAGCCTTTTAAATTTAACTGAAAGAAAGGGT
ACCCAGTGTGTTGAACAATCAAGAGTTGGTTCTACGCTTCTGTGAGAAGAACTGTGAAAAGAGCATG
GTTGAACAGCTGGACAAGTTTTAAATGACACCAAGCCTGTGGCCCTTCTCCTAAGTAAAAGATTC
ATTAATGTCCCTCCACAGATCGCTCTGCCATGTACCAGCAGCTTCAAGAAAGAACTGGCGGGGGCACAC
AGAACCAATAAGCCATGTGGGAAGTGCTACTTTTACCTTCTGATTAGTAAGACATTTGTGGAAGCAGGA
AAAAACAATCCAAAAAGAAACCTAGCAACAAAAAGAAAGCTGCGTTAATGTTTGCAAATGCAGAGGAA
GAATTTTTCTATGAGGAGCAGGGAAAACCTGAGGTGCTTGGAGGTCCAGACACAAGAAGAGGATTGGAA
CCAGTTCGATACAGCACAATGGTGGTTACGGGGCAAGTGACAGCCCTGGTTTCTCTGAAGCTGGA
CTAATTCATCAAGATCAACTCTAAGTGATTTCCAGGAACTTCATGACTGTTGGAATTGCTCTGTCA
TAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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Plasmid Map:



ACCN: NM\_016567

Insert Size: 969 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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\\_016567.3](#)

RefSeq Size: 1461 bp

RefSeq ORF: 969 bp

Locus ID: 56647

UniProt ID: [Q9P287](#)

Cytogenetics: 10q26.2

Protein Families: Druggable Genome, Stem cell - Pluripotency

MW: 36.2 kDa

**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]  
Transcript Variant: This variant (A) encodes the longest isoform (BCCIPalpha, which is also known as TOK-1alpha). BCCIPalpha has a different C-terminus compared to isoforms BCCIPbeta and C, and has been the subject of most functional studies.