

## Product datasheet for **RC220795L4V**

### **BCCIP (NM\_016567) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | BCCIP (NM_016567) Human Tagged ORF Clone Lentiviral Particle   |
| Symbol:                   | BCCIP  |
| Synonyms:                 | TOK-1; TOK1  |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)  |
| Tag:                      | mGFP   |
| ACCN:                     | NM_016567  |
| ORF Size:                 | 966 bp   |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC220795).   |
| 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. <a href="#">More info</a> |
| OTI Annotation:           | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| RefSeq:                   | <a href="#">NM_016567.2</a>  |
| RefSeq Size:              | 1290 bp  |
| RefSeq ORF:               | 969 bp   |
| Locus ID:                 | 56647  |
| UniProt ID:               | <a href="#">Q9P287</a>   |
| Cytogenetics:             | 10q26.2  |
| Protein Families:         | Druggable Genome, Stem cell - Pluripotency   |
| MW:                       | 36 kDa   |



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**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]