

## Product datasheet for **RC224652**

### CtIP (RBBP8) (NM\_002894) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                             |
| Product Name:             | CtIP (RBBP8) (NM_002894) Human Tagged ORF Clone |
| Tag:                      | Myc-DDK   |
| Symbol:                   | CtIP  |
| Synonyms:                 | COM1; CTIP; JWDS; RIM; SAE2; SCKL2              |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)                          |
| E. coli Selection:        | Kanamycin (25 ug/mL)                            |



[View online »](#)

ORF Nucleotide  
Sequence:

>RC224652 representing NM\_002894  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAACATCTCGGAAGCAGCTGTGGAAGCCCTAACTCTGCAGATACATCTAGTGACTTTAAGACCTTT  
 GGACAAAATAAAAGAATGTCATGATAGAGAAGTACAAGTTTACAAGTAAAAGTAACCAAGCTAAAACA  
 GGAACGAATCTTAGATGCACAAAGACTAGAAGAATTTCCACAAAAATCAACAGCTGAGGGAACAGCAG  
 AAAGTCTTCATGAAACCATTAAAGTTTTAGAAGATCGTTAAGAGCAGGCTTATGTGATCGCTGTGCAG  
 TAACTGAAGAACATATGCGGAAAAAACAGCAAGAGTTTAAAAATATCCGGCAGCAGAATCTTAACTTAT  
 TACAGAACTTATGAATGAAAGGAATACTCTACAGGAAGAAAAATAAAAGCTTTCTGAACAACTCCAGCAG  
 AAAATTGAGAATGATCAACAGCATCAAGCAGCTGAGCTTGAATGTGAGGAAGACGTTATTCCAGATTCAC  
 CGATAACAGCCTTCTCATTTTCTGGCGTTAACCGGCTACGAAGAAAGGAGAACCCCATGTCCGATACAT  
 AGAACAAACACATACTAAATTGGAGCAGCTGTGTGTGCAAAATGAAATGAGAAAAGTTTCCAAGTCTTCA  
 ACTCATCCACAACATAATCCTAATGAAAATGAAATTTCTAGTAGCTGACACTTATGACCAAAGTCAATCTC  
 CAATGGCCAAAGCACATGGAACAAGCAGCTATACCCCTGATAAGTCATCTTTAATTTAGCTACAGTTGT  
 TGCTGAAACACTTGGACTTGGTGTTCAGAAGAATCTGAAACTCAAGTCCCATGAGCCCCCTTGGTGAT  
 GAGCTCTACCACTGTCTGGAAGGAAATCACAAGAAACAGCCTTTTGAGGAATCTACAAGAAATACTGAAG  
 ATAGTTTAAGATTTTCAGATTCTACTTCAAAGACTCCTCCTCAAGAAGAATTACCTACTCGAGTGCATC  
 TCCTGTATTTGGAGCTACCTCTAGTATCAAAAGTGTTTTAGATTTGAATACAAGTTTGTCCCCTTCTCTT  
 TTACAGCCTGGGAAAAAAAACATCTGAAAACACTCCCTTTTACACATCACAGTCTTGGGCTGAACAAAG  
 AAATAGATCAAAATCTGAAGATAGTCCCTTTTACACATCACAGTCTTGGGCTGAACAAAGATCAAGAT  
 CATTATCCAGTCATCTAATAAACAGATACTTATAAATAAAAAATATAAGTGAATCCCTAGGTGAACAGAAT  
 AGGACTGAGTACGGTAAAGATTCTAACACTGATAAACATTTGGAGCCCTGAAATCATTGGGAGGCCGAA  
 CATCCAAAAGGAAGAAAACACTGAGGAAGAAAGTGAACATGAAGTAAGCTGCCCAAGCTCTTTTGATAA  
 AGAAAAATGCTTTCCCTTTTCCAATGGATAATCAGTTTTCCATGAATGGAGACTGTGTGATGGATAAACCT  
 CTGGATCTGTCTGATCGATTTTCAGCTATTCAGCGTCAAGAGAAAAGCCAAGGAAGTGAAGTCTAAAA  
 ACAAATTTAGGCAAGTACTCTTTATGAGGCTTTGAAGACCATTCCAAGGGCTTTTCTCAAGCCGTAA  
 GGCCTCAGATGGCAACTGCAGTTCGCCAAAGATTCGCCAGGGGAGCCCTGTTACAGGAATGCATCATC  
 CTTCAAGCCTTGAATAAATGCTCTCCAGACAATAAACCATCATTACAAATAAAAGAAGAAAATGCTGTCT  
 TTAATAATTCCTCTACGTCCAGTAAAGTTTGGAGACTGAGAATGTTTTAGATGACATAAAGAGTGTCTGG  
 TTCTCATGAGCCAATAAAAAATACAAACCAGGTCAGACCATGGAGGATGTGAACCTGCATCAGTTCTTCAG  
 TTAATCCATGTAGAAGTGGTAAAAATAAGTCTCTACAAAACAACCAAGATGTATCCTTTGAAAATATCC  
 AGTGGAGTATAGATCCGGGAGCAGACCTTTCTCAGTATAAAATGGATGTTACTGTAAATAGATACAAGGA  
 TGGCAGTCAGTCAAAATAGGAGGAGAGACAGTGGACATGGACTGTACATTGGTTAGTGAACCCGTTCTC  
 TTAATAATGAAGAAGCAAGAGCAGAAGGGAGAAAAAAGTTCAAAATGAAGAAAGAAAATGAATGATAGCT  
 TGGAAGATATGTTTGTATCGGACAACACATGAAGAGTATGAATCCTGTTTGGCAGACAGTTTCTCCAAGC  
 AGCAGATGAAGAGGAGGAATTGTCTACTGCCACAAAGAACTACACACTCATGGTGATAAACAAGACAAA  
 GTCAGAGCAGAAAGCGTTTTGTGGAGCCGATTTTTAAAGGTGATGAAAGAGAGACTAGCTTGCAAAATTTTC  
 CTCATATTTGAGGTGGTTTCGAAAAAAGAGGAGAGAAGAAAAGTCTTGGGCACACGTGTAAGGAATGTGA  
 AATTTATATGCAGATATGCCAGCAGAAGAAAGAGAAAAGAAATGGCTTCTGTCTCAAGACACCGATTC  
 CGCTACATTCCACCCAACACACCAGAGAATTTTTGGGAAGTTGGTTTTCTTCCACTCAGACTTGTATGG  
 AAAGAGGTTATATTAAGGAAGATCTTGATCCTGTCTCGTCCAAAAAGACGTACGCCTTACAACGCAAT  
 ATTTTCTCCAAAAGGCAAGGAGCAGAAGACA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC224652 representing NM\_002894  
 Red=Cloning site Green=Tags(s)

MNISGSSCGSPNSADTSSDFKDLWTKLKECHDREVQGLQVKVTKLKQERILDAQRLIEFFTKNQQLREQQ  
 KVLHETIKVLEDRLRAGLCDRCAVTEEHMRKKQEFENIRQNLKLITELMNERNTLQEENKQLSEQLQQ  
 KIENDQQHQAAELECEEDVIPDSPITAFSFSGVNRLRRKENPHVRYIEQTHTKLEHVCANEMRKVSKSS  
 THPQHNPNEILVADTYDQSQSPMAKAHGTSSYTPDKSSFNLATVVAETLGLGVQEESETQGPMSPLGD  
 ELYHCLGNHKKQPFEESTRNTEDSLRFS DSTSKTPPQEELPTRVSSPVFGATSSIKSGLDLNTSLSPSL  
 LQPGKKKHLKTL PFSNTCISRLEKTRSKSEDSALFTHHSLGSEVNKII IQSSNKQILINKNISESLGEQN  
 RTEYKDSNTDKHLEPLKSLGGRTSKRKKTEESEHEVSCPQASFDKENAFPFMDNQFSMNGDCVMDKP  
 LDLSDRFSAIQRQEKSSQGETSKNKFRQVTLYEALKTIPKGFSSSRKASDGNCTLPKDSPGEPSCQECII  
 LQPLNKCPDNKPSLQIKEENAVFKIPLRPRESLETENVLDDIKSAGSHEPIKIQTSDHGGCELASVLQ  
 LNPCRTGKIKSLQNNQDVSFENIQWSIDPGADLSQYKMDVTVIDTKDGSQSKLGGETVDMDCCTLVSETVL  
 LKMKKQEQKGEKSSNEERKMNDLEDMDRRTTHEEYESCLADSFQAADDEEELSTATKLLHTHGDKQDK  
 VKQKAFVEPYFKGDERETSLQNFPHIEVVRKKEERRKLLGHTCKECEIYYADMPAEEREKKLASCSRHRF  
 RYIPPNTPENFWGVGFPSTQTCMERYIKEDLDPCPRPKRRQPYNALFSPKGKEQKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

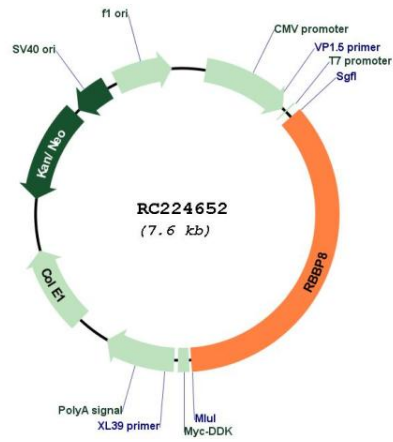
**Cloning Scheme:**



**ACCN:** NM\_002894

|                               |  |
|-------------------------------|--|
| <b>ORF Size:</b>              | 2691 bp  |
| <b>OTI Disclaimer:</b>        | <p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p> |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>  |
| <b>RefSeq:</b>                | <a href="#">NM_002894.3</a>  |
| <b>RefSeq Size:</b>           | 3279 bp  |
| <b>RefSeq ORF:</b>            | 2694 bp  |
| <b>Locus ID:</b>              | 5932   |
| <b>UniProt ID:</b>            | <a href="#">Q99708</a>   |
| <b>Cytogenetics:</b>          | 18q11.2  |
| <b>MW:</b>                    | 101.8 kDa  |
| <b>Gene Summary:</b>          | <p>The protein encoded by this gene is a ubiquitously expressed nuclear protein. It is found among several proteins that bind directly to retinoblastoma protein, which regulates cell proliferation. This protein complexes with transcriptional co-repressor CTBP. It is also associated with BRCA1 and is thought to modulate the functions of BRCA1 in transcriptional regulation, DNA repair, and/or cell cycle checkpoint control. It is suggested that this gene may itself be a tumor suppressor acting in the same pathway as BRCA1. Three transcript variants encoding two different isoforms have been found for this gene. More transcript variants exist, but their full-length natures have not been determined. [provided by RefSeq, Jul 2008]</p>  |

Product images:



Circular map for RC224652