

## Product datasheet for **RC216893**

### Cyclin T2 (CCNT2) (NM\_001241) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cyclin T2 (CCNT2) (NM_001241) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyclin T2
Synonyms:	CYCT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RC216893 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGTCGGGCCGTGGAGCTTCTTCTCGTGGTTCTTTACTCGGAACAGCTGGAGAACACGCCGAGCC  
 GCCGCTGCGGAGTGGAGGCGGATAAAGAGCTCTCGTGCCGCCAGCAGCGGCCAACTCATCCAGGAGAT  
 GGGACAGCGTCTCAATGTCTCTCAGCTTACAATAAACACTGCGATTGTTTATATGCACAGTTTTATATG  
 CACCATTCTTTCACCAAATTAACAATAATAATATCGTCTACTGCATTATTTTTGGTGCAAAAGTGG  
 AAGAACAGGCTCGAAAATTGAACATGTTATCAAAGTAGCACATGCTTGTCTTCACTAGAGCCACT  
 GCTGGATACTAAATGTGATGCTTACCTTCAACAGACTCAAGAAGTGGTTACTTGAAACCATAATGCTA  
 CAAACTCTAGGTTTTGAGATCACCATTGAACACCCACACAGATGTGGTGAATGTACCCAGTTAGTAA  
 GAGCAAGCAAGGATTTGGCACAGACATCTATTTTCATGGCTACCAACAGTCTGCATCTTACAACCTTCTG  
 TCTTCAGTACAAACCAACAGTGATAGCATGTGTATGCATTCAATTTGGCTTGCAAAATGGTCCAATTTGGGAG  
 ATCCCTGTATCAACTGATGGAAAGCATTGGTGGGAATATGTGGATCCTACAGTACTCTAGAATTATTAG  
 ATGAGCTAACACATGAGTTTCTACAAATATTGGAGAAAACGCCTAATAGTTGAAGAAGATTCGAAACTG  
 GAGGGCTAATCAGGCAGCTAGGAAACAAAAGTAGATGGACAGGTATCAGAGACACCACTTCTTGGTTCA  
 TCTTTGGTCCAGAATCCATTTTAGTAGATAGTGTCACTGGTGTGCCTACAAACCAAGTTTTGAGAAAC  
 CATCTACATCAGCATTCCCTGCGCCAGTACCTCTAAATTCAGGAAATATTTCTGTTCAAGACAGCCATAC  
 ATCTGATAATTTGTCAATGCTAGCAACAGGAATGCCAAGTACTTCATACGGTTTATCATCACACCAGGAA  
 TGGCCTCAACATCAAGACTCAGCAAGGACAGAACAGCTATATTCACAGAAAACAGGAGACATCTTTGTCTG  
 GTAGCCAGTACAACATCAACTTCCAGCAGGGACCTTCTATCACTGCATTCAAGATTACATCACAGACC  
 TGACAAAATTTTCAGATCATTCTTCTGTTAAGCAAGAATACTCATAAAGCAGGGAGCAGTAAACCCAT  
 GGGCAATTTCCACTACTCCAGGAATAATTCCTCAGAAAATGTCTTTAGATAAATATAGAGAAAAGCGTA  
 AACTAGAAACTCTTGATCTCGATGTAAGGGATCATTATATAGCTGCCAGGTAGAACAGCAGCACAAAACA  
 AGGGCAGTCACAGGCAGCCAGCAGCAGTTCTGTTACTTCTCCATTAAAAATGAAAATACCTATCGCAAAT  
 ACTGAAAATACATGGCAGATAAAAAGGAAAAGAGTGGTCACTGAAATACGGATTCCAATACCACCCA  
 CTGATAAAAGCGCCAGTAAAGAAGAACTGAAAATGAAAATAAAAGTTTCTTCTTCAGAAAGACACAGCTC  
 TTCTGATGAAGGCAGTGGGAAAAGCAAACATTCAAGCCACATATTAGCAGAGACCATAAGGAGAAGCAC  
 AAGGAGCATCCTTCAAGCCGCCACCACACCAGCAGCCACAAGCATTCCCCTCGCATAGTGGCAGCAGCA  
 GCGGTGGCAGTAAACACAGTGCCGACGGAATACCACCCACTGTTCTGAGGAGTCCGTTGGCCTGAGCAG  
 TGATGGCATTTCCTCTAGCTCCAGCTCTTCAAGGAAGAGGCTGCATGTCAATGATGCATCTCACAAACCAC  
 CACTCCAAAATGAGCAAAAGTTCCAAAAGTTTCAGGTGGGCTACGGACATCTCAGCACCTCGTGAAGCTG  
 GACAAGAAGCCAGTGGAGACCAACGGTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC216893 protein sequence  
Red=Cloning site Green=Tags(s)

MASGRGASSRWFFTREQLENTPSRRCGVEADKELSCRQQAANLIQEMGQRLNVSQLTINTAIVYMHRFYM  
HHSFTKFNKNIISSTALFLAAKVEEQARKLEHVIKVAHACLHPLEPLLDTKCDAYLQQTQELVILETIML  
QTLGFEITIEHPHTDVVKCTQLVRASKDLAQTSYFMATNSLHLTTFCLQYKPTVIACVCIHLACKWSNWE  
IPVSTDGKHWWEYVDPTVTLELLELDELTHEFLQILEKTPNRLKKIRNWRANQAARKPKVDGQVSETPLLGS  
SLVQNSILVDSVTGVPTNPSFQKPSTSAFPAPVPLNSGNI SVQDSHTSDNLSMLATGMPSTSYGLSSHQE  
WPOHQDSARTEQLYSQKQETSLSGSQYNINFQQGPSISLHSGLHHRPDKISDHSSVKQEYTHKAGSSKHH  
GPISTTPGIIPQKMSLDKYREKRKLETLDLDRDHYIAAQVEQQHKQGQSSQAASSSVTSPHKMPIAN  
TEKYMADKKEKSGSLKLRIPPTDKSASKEELKMKIKVSSSERHSSSDEGSGKSKHSSPHISRDKHKKH  
KEHPSSRHHTSSHKHSHSHSGSSSGSKHSADGIPPTVLRSPVGLSSDGISSSSSSSRKRLHVNDASHNH  
HSKMSKSSKSSGGLRTSQHPRETGQEASGDQRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6561\\_b02.zip](https://cdn.origene.com/chromatograms/mk6561_b02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001241

**ORF Size:** 1989 bp

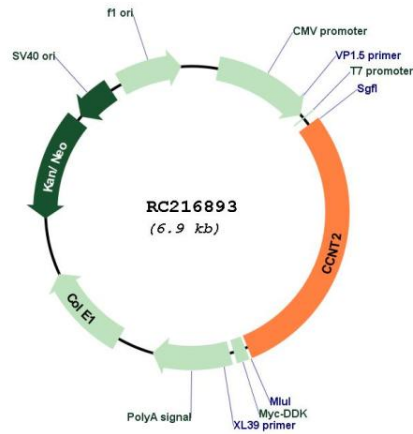
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

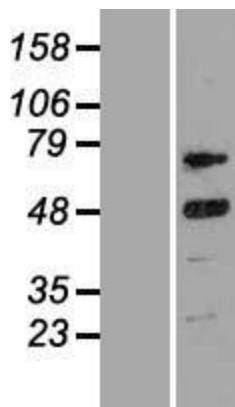
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<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_001241.2</a> , <a href="#">NP_001232.1</a>
<b>RefSeq Size:</b>	6822 bp
<b>RefSeq ORF:</b>	1992 bp
<b>Locus ID:</b>	905
<b>UniProt ID:</b>	<a href="#">O60583</a>
<b>Cytogenetics:</b>	2q21.3
<b>Domains:</b>	CYCLIN, cyclin
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>MW:</b>	73.7 kDa
<b>Gene Summary:</b>	<p>The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin and its kinase partner CDK9 were found to be subunits of the transcription elongation factor p-TEFb. The p-TEFb complex containing this cyclin was reported to interact with, and act as a negative regulator of human immunodeficiency virus type 1 (HIV-1) Tat protein. A pseudogene of this gene is found on chromosome 1. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Dec 2010]</p>

Product images:



Circular map for RC216893



Western blot validation of overexpression lysate (Cat# [LY420056]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216893 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).