

Product datasheet for **SC314566**

Cyclin T2 (CCNT2) (NM_058241) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyclin T2 (CCNT2) (NM_058241) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cyclin T2
Synonyms:	CYCT2
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_058241, the custom clone sequence may differ by one or more nucleotides

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ATGGCGTCGGGCCGTGGAGCTTCTTCTCGCTGGTTCTTTACTCGGGAACAGCTGGAGAAC
ACGCCGAGCCGCCGCTGCGGAGTGGAGGCGGATAAAGAGCTCTCGTGCCGCCAGCAGGCG
GCCAACCTCATCCAGGAGATGGGACAGCGTCTCAATGTCTCTCAGCTTACAATAAACT
GCGATTGTTTATATGCACAGGTTTTATATGCACCATTCTTTCACCAAATCAACAAAAAT
ATAATATCGTCTACTGCATTATTTTTGGCTGCAAAAGTGAAGAACAGGCTCGAAAACTT
GAACATGTTATCAAAGTAGCACATGCTTGTCTTCACTCTAGAGCCACTGCTGGATACT
AAATGTGATGCTTACCTTCAACAGACTCAAGAAGTGGTTATACTTGAAACCATAATGCTA
CAAACCTAGGTTTTGAGATCACCATTGAACACCCACACACAGATGTGGTGAAATGTACC
CAGTTAGTAAGAGCAAGCAAGGATTTGGCACAGACATCTATTTTCATGGCTACCAACAGT
CTGCATCTTACAACCTTCTGTCTTCAGTACAAACCAACAGTGATAGCATGTGTATGCATT
CATTTGGCTTGCAAAATGGTCCAATTGGGAGATCCCTGTATCAACTGATGGAAAGCATTGG
TGGGAATATGTGGATCCTACAGTACTCTAGAATTATTAGATGAGCTAACACATGAGTTT
CTACAAATATTGGAGAAAACGCCTAATAGGTTGAAGAAGATTCGAAACTGGAGGGCTAAT
CAGGCAGCTAGGAAACAAAAGTAGATGGACAGGTATCAGAGACACCCTCTTGGTTCA
TCTTTGGTCCAGAATTCATTTTAGTAGATAGTGTCACTGGTGTGCCACAAACCAAGT
TTTCAGAAACCATCTACATCAGCATTCCCTGCGCCAGTACCTCTAAATTCAGGAAATATT
TCTGTTCAAGACAGCCATACATCTGATAATTTGTCAATGTAGCAACAGGAATGCCAAGT
ACTTCATACGGTTTATCATCACACCAGGAATGGCTCAACATCAAGACTCAGCAAGGACA
GAACAGCTATATTCACAGAAACAGGAGACATCTTGTCTGGTAGCCAGTACAACATCAAC
TTCCAGCAGGGACCTTCTATATCACTGCATTGAGGATTACATCACAGACCTGACAAAAAT
TCAGATCATTCTTCTGTTAAGCAAGAATACTCATAAAGCAGGGAGCAGTAAACACCAT
GGGCCAATTTCCACTACTCCAGGAATAATCCTCAGAAAATGTCTTTAGATAAATATAGA
GAAAAGCGTAAACTAGAACTCTTGATCTCGATGTAAGGGATCATTATATAGCTGCCAG
GTAGAACAGCAGCACAAACAAGGGCAGTCACAGGCAGCCAGCAGCAGTTCTGTTACTTCT
CCCATTAAAAATGAAAATACCTATCGCAAATACTGAAAAATACATGGCAGATAAAAAGGAA
AAGAGTGGGTCAGTGAATACGGATTCCAATACCACCCACTGATAAAGCGCCAGTAA
GAAGAAGTGAATAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAA
GGCAGTGGGAAAAGCAAAATTCAGGCCACATATTAGCAGAGACCATAAGGAGAAGCAC
AAGGAGCATCCTTCAAGCCGCCACCACACCAGCAGCCACAAGCATTCCCCTCGCATAGT
GGCAGCAGCAGCGGTGGCAGTAAACACAGTGCCGACGGAATACCACCCACTGTTCTGAGG
AGTCTGTTGGCCTGAGCAGTGTGGCATTTCCTCTAGCTCCAGCTCTTCAAGGAAGAGG
CTGCATGTCAATGATGCATCTCACAACCACCTCCAAAATGAGCAAAAGTTCAAAAGT
TCAGGTAGTTCATCTAGTTCTTCTCCTCTGTTAAGCAGTATATCCTCTCACAACCTCT
GTTTTTAAACATCCCTTACCCCTCCTCCCTGTGACATACCAGGTGGGCTACGGACAT
CTCAGCACCTCGTGAAGTGGACAAGAAGCCAGTGGAGACCAACGGTCTGATGCCAAT
CACGAGTACAGTACAAGCAGCCAGCATATGGACTACAAAGACACATTCGACATGCTGGAC
TCACTGTTAAGTCCCAAGGAATGAACATG

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- Restriction Sites:** Please inquire
- ACCN:** NM_058241
- 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:	<ol style="list-style-type: none">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:	<u>NM_058241.1, NP_490595.1</u>
RefSeq Size:	4614 bp
RefSeq ORF:	2193 bp
Locus ID:	905
UniProt ID:	<u>O60583</u>
Cytogenetics:	2q21.3
Domains:	CYCLIN, cyclin
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	<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> <p>Transcript Variant: This variant (b) contains an additional internal fragment in the 3' coding region, which results in a frameshift, compared to variant a. The resulting isoform (b) is longer and has a distinct C-terminus, compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>