

Product datasheet for **SC109037**

Cyclin T2 (CCNT2) (NM_001241) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyclin T2 (CCNT2) (NM_001241) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cyclin T2
Synonyms:	CYCT2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_001241 edited
ACGAATTCGGCACCAGGAGGAAGTGTTCATGGCGTCGGGCCGTGGAGCTTCTTCTCGCTGG
TTCTTTACTCGGGAACAGCTGGAGAACACGCCGAGCCGCCGCTGCGGAGTGGAGGCGGAT
AAAGAGCTCTCGTGCCGCCAGCAGGCGGCCAACCTCATCCAGGAGATGGGACAGCGTCTC
AATGTCTCTCAGCTTACAATAAACTGCGATTGTTTATATGCACAGGTTTTATATGCAC
CATTCTTTACCAAATTAACAAAAATAAATATCGTCTACTGCATTATTTTTGGCTGCA
AAAGTGAAGAACAGGCTCGAAAACTTGAACATGTTATCAAAGTAGCACATGCTTGTCTT
CATCCTCTAGAGCCACTGCTGGATACTAAATGTGATGCTTACCTTCAACAGACTCAAGAA
CTGGTTATACTTGAAACCATAATGCTACAACTCTAGGTTTTGAGATCACCATTGAACAC
CCACACACAGATGGGTGAAATGTACCCAGTTAGTAAGAGCAAGCAAGGATTTGGCACAG
ACATCCTATTTTCATGGCTACCAACAGTCTGCATCTTACAACCTTCTGTCTTCAGTACAAA
CCAACAGTGATAGCATGTGTATGCATTCATTTGGCTTGCAAATGGTCCAATTGGGAGATC
CCTGTATCAACTGATGGAAGCATTGGTGGGAATATGTGGATCCTACAGTTACTCTAGAA
TTATTAGATGAGTAACACATGAGTTTCTACAAATATTGGAGAAAACGCCTAATAGGTTG
AAGAAGATTCGAAACTGGAGGGTAATCAGGCAGCTAGGAAACAAAAGTAGATGGACAG
GTATCAGAGACACCCTTCTGGTTCATCTTTGGTCCAGAATTCCATTTTAGTAGATAGT
GTCAGTGGTGTGCTACAAACCCAAAGTTTTCAGAAACCATCTACATCAGCATTCCCTGCG
CCAGTACCTCTAAATTCAGGAAATTTTCTGTTCAAGCAGCCATACATCTGATAATTTG
TCAATGTAGCAACAGGAATGCCAAGTACTTCATACGGTTTATCATCACACCAGGAATGG
CCTCAACATCAAGACTCAGCAAGGACAGAACAGCTATATTACAGAAACAGGAGACATCT
TTGTCTGGTAGCCAGTACAACATCAACTCCAGCAGGGACCTTCTATATCACTGCATTCA
GGATTACATCACAGACCTGACAAAATTTAGATCATTCTTCTGTTAAGCAAGAATAACT
CATAAAGCAGGGAGCAGTAAACACCATGGGCAATTTCCACTACTCCAGGAATAATTCCT
CAGAAAATGTCTTTAGATAAATATAGAGAAAAGCGTAAACTAGAAACTCTTGATCTCGAT
GTAAGGGATCATTATATAGCTGCCAGGTAGAACAGCAGCACAAACAAGGCGAGTCACAG
GCAGCCAGCAGCAGTTCTGTTACTTCTCCCATTAATAAATGAAAATACCTATCGAAATACT
GAAAATACATGGCAGATAAAAAGGAAAAGAGTGGGCTACTGAAATTACGGATTCCAATA
CCACCCACTGATAAAGCGCCAGTAAAGAAGAACTGAAAATGAAAATAAAAGTTTCTTCT
TCAGAAAGACACAGCTCTTCTGATGAAGGCAGTGGGAAAAGCAAACATTCAAGCCCACAT
ATTAGCAGAGACCATAAGGAGAAGCACAAAGGAGCATCCTTCAAGCCGCCACCACACCAGC
AGCCACAAGCATTCCCACTCGCATAGTGGCAGCAGCAGCGGTGGCAGTAAACACAGTGCC
GACGGAATACCACCCACTGTTCTGAGGAGTCTGTTGGCCTGAGCAGTGATGGCATTTC
TCTAGCTCCAGCTCTTCAAGGAAGAGGCTGCATGTCAATGATGCATCTCAACACCAC
TCCAAAATGAGCAAAAGTTCCAAAAGTTTCAAGTGGGCTACGGACATCTCAGCACCCTCGT
GAAACTGGACAAGAAGCCAGTGGAGACCAACGGTCCTGATGCCAATCACGAGTACAGTAC
AAGCAGCCAGCATATGGACTACAAAG
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001241 unedited NGGCAGAAATTTTGTAAATACGAACACTACTATAGGGCGGCCGCGAATTCGCACCAGGAGGAA GTGTCAATGGCGTCGGGCCGTGGAGCTTCTTCTCGCTGGTTCTTTACTCGGGAACAGCTGG AGAACACGCCGAGCCGCCGCTGCGGAGTGGAGGCGGATAAAGAGCTCTCGTGCCGCCAGC AGGCGGCCAACCTCATCCAGGAGATGGGACAGCGTCTCAATGTCTCTCAGCTTACAATAA ACACTGCGATTGTTTATATGCACAGGTTTATATGCACCATTCTTTCACCAAATCAACA AAAATATAATATCGTCTACTGCTTATTTTTGGCTGCAAAAGTGAAGAACAGGCTCGAA AACTTGAACATGTTATCAAAGTAGCACATGCTTGTCTTCATCCTCTAGAGCCACTGCTGG ATACTAAATGTGATGCTTACCTTCAACAGACTCAAGAAGTGGTTATACTTGAAACCATAA TGCTACAAACTCTAGGTTTTGAGATCACCATTGAACACCCACACACAGATGTGGTGAAAT GTACCCAGTTAGTAAGAGCAAGCAAGGATTTGGCACAGACATCCTATTTTCATGGTACCA ACAGTCTGCATCTTACAACCTTCTGTCTTCAGTACAAACCAACAGTGATAGCATGTGTAT GCATTCATTTGGCTTCAAATGGTCCAATTGGGGAGATCCCTGTATCAACTGATGGAAG CATTGGTGGGAATATGTGGATCCTACAGTACTCTAGAATTATTAGATGAGCTAACACAT GAGTTTCTACAAATATTGGAGAAAACGCCTAATAGTTGAAGAAGATTGAAAAGTGGAGG GCTAATCAGGCAGCTAGGAAACAAAAGTAGATGGACAGGTATCAGAGACACCCTCTG GNTCATNCTTGGNTCCAGAATNNCATNNTAGTAGATATGG
Restriction Sites:	NotI-NotI
ACCN:	NM_001241
Insert Size:	4600 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).
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:	NM_001241.2 , NP_001232.1
RefSeq Size:	4513 bp
RefSeq ORF:	1992 bp
Locus ID:	905
UniProt ID:	O60583
Cytogenetics:	2q21.3
Domains:	CYCLIN, cyclin
Protein Families:	Druggable Genome, Transcription Factors

Gene Summary:

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]

Transcript Variant: This variant (a) encodes 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.