

Product datasheet for **SC127871**

Cyclin A1 (CCNA1) (NM_003914) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyclin A1 (CCNA1) (NM_003914) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cyclin A1
Synonyms:	CT146
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC127871 sequence for NM_003914 edited (data generated by NextGen Sequencing)

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ATGGAGACCGGCTTTCCCGCAATCATGTACCCTGGATCTTTTATTGGGGGCTGGGGAGAA
GAGTATCTCAGCTGGGAAGGACCGGGGCTCCAGATTTTCGTCTTCCAGCAGCAGCCCGTG
GAGTCTGAAGCAATGCACTGCAGCAACCCCAAGAGTGGAGTTGTGCTGGCTACAGTGGCC
CGAGGTCCCGATGCTTGTACAGTACTACCAGAGCCCCGCTGGGCCAGGATCCCCCGCAG
AGGACACTGTAGGGCTGCTAACTGCAAAATGGGCAGTACAGGAGGACCTGTGGCCAGGGG
ATCACAAGAATCAGGTGTTATTCTGGATCAGAAAATGCCTTCCCTCCAGCTGAAAAGAAA
GCACTCCCTGACTGTGGGGTCCAAGAGCCCCCAAGCAAGGGTTTGACATCTACATGGAT
GAACTAGAGCAGGGGGACAGAGACAGCTGCTCGGTGAGAGAGGGGATGGCATTGAGGAT
GTGTATGAAGTAGACACCGGCACACTCAAGTCAGACCTGCACTTCTGCTGGATTCAAC
ACAGTTTCCCCTATGCTGGTAGATTTCATCTCTCCTCTCCAGTCTGAAGATATATCCAGT
CTTGGCACAGATGTGATAAATGTGACTGAATATGCTGAAGAAATTTATCAGTACCTTAGG
GAAGCTGAAATAAGGCACAGACCCAAAGCACACTACATGAAGAAGCAGCCAGACATCACG
GAAGGCATGCGCACGATTCTGGTGGACTGGCTGGTGGAGGTTGGGGAAGAATATAAACTT
CGAGCAGAGACCTGTATCTGGCTGTCAACTTCCCTGGACAGGTTCTTTTCATGTATGTCT
GTTCTGAGAGGGAAACTGCAGCTCGTAGGAACAGCAGCTATGCTTTTGGCTTCGAAATAT
GAAGAGATATATCCTCCTGAAGTAGACGAGTTTGTCTATATCACCAGTATACATACACA
AAACGACAACCTGTTAAAAATGGAACACTTGCTTCTGAAAGTTCTAGCTTTTGTGCTGACA
GTACCAACCACCAACCAGTTTCTCCTCAGTACTTGAGGGCACAAGGAGTGTGCGTCAGG
ACTGAGAACCTGGCTAAGTACGTAGCAGAGCTGAGTCTACTTGAAGCAGATCCATTCTTG
AAATATCTTCCCTCACTGATAGCTGCAGCAGCTTTTGCCTGGCAAACTATACTGTGAAC
AAGCACTTTTGGCCAGAAACCTTGTGCTGATTTACAGGGTATTCATTAAGTGAATTTGTG
CCTTGCCTGAGTGAGCTTCATAAAGCGTACCTTGATATACCCCATCGACCTCAGCAAGCA
ATTAGGGAGAAGTACAAGGCTTCAAAGTACCTGTGTGTCCCTCATGGGCCACCTGCA
GTTCTTCTTACAATAA
    
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Clone variation with respect to NM_003914.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003914 unedited

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GGCGGGTCAAATTTGTATACGACTCATATAGGGCGGCCGCGATTCCCGGGATGACGGGAA
GAGCGGGGCCCGCTTTGGGGTCCAGGCAGGTTTTGGGGCCTCCTGTCTGGTGGGAGGAGG
CCGCAGCGCAGCACCCCTGCTCGTCACTTGGGATGGAGACCGGCTTTCCCGCAATCATGTA
CCCTGGATCTTTTATTGGGGGCTGGGGAGAAGAGTATCTCAGCTGGGAAGGACCGGGGCT
CCCAGATTTTCGTCTTCCAGCAGCCCGTGGAGTCTGAAGCAATGCACTGCAGCAACCCCAA
GAGTGGAGTTGTGCTGGCTACAGTGGCCCGAGGTCCCGATGCTTGTGAGATACTACCAG
AGCCCCGCTGGCCAGGATCCCCCGCAGAGGACAGTGTAGGGCTGCTAACTGCAAAATGG
GCAGTACAGGAGGACCTGTGGCCAGGGGATCACAAGAATCAGGTGTTATTCTGGATCAGA
AAATGCCTTCCCTCCAGCTGAAAAGAAAGCACTCCCTGACTGTGGGGTCCAAGAGCCCC
CAAGCAAGGGTTTGACATCTACATGGATGAACTAGAGCAGGGGGACAGAGACAGTGTCTC
GGTCAGAGAGGGGATGGCATTGAGGATGTGTATGAAGTAGACACCGGCACACTCAAGTC
AGACCTGCACTTCTGCTGGATTTCAACACAGTTTCCCCTATGCTGGTAGATTTCATCTCT
CCTCTCCAGTCTGAAGATATATCCAGTCTTGGCACAGATGTGATAAATGTGACTGAATA
TGCTGAAGAATTTATCAGTACCTTNAAGGAGCTNGAATAGNGCACAGACCCAAAGCACAC
TACATGAAGAAGCAGCCAGACATCACGGAAGGCATGCGCACGATTTCTGGTGACT
    
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Restriction Sites:

Please inquire

ACCN:

NM_003914

Insert Size:

1800 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_003914.2 , NP_003905.1
RefSeq Size:	1743 bp
RefSeq ORF:	1398 bp
Locus ID:	8900
UniProt ID:	P78396
Cytogenetics:	13q13.3
Domains:	cyclin_C, CYCLIN, cyclin
Protein Families:	Druggable Genome
Protein Pathways:	Acute myeloid leukemia, Cell cycle, Pathways in cancer, Progesterone-mediated oocyte maturation
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. The cyclin encoded by this gene was shown to be expressed in testis and brain, as well as in several leukemic cell lines, and is thought to primarily function in the control of the germline meiotic cell cycle. This cyclin binds both CDK2 and CDC2 kinases, which give two distinct kinase activities, one appearing in S phase, the other in G2, and thus regulate separate functions in cell cycle. This cyclin was found to bind to important cell cycle regulators, such as Rb family proteins, transcription factor E2F-1, and the p21 family proteins. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).</p>