

Product datasheet for **SC119369**

Cyclin A2 (CCNA2) (NM_001237) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyclin A2 (CCNA2) (NM_001237) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cyclin A2
Synonyms:	CCN1; CCNA
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_001237 edited
GCACCAGGCTCCGGCGGGCTGCTCGCTGCATCTCTGGGCGTCTTTGGCTCGCCACGCTGG
GCAGTGCCTGCCTGCGCCTTTGCAACCTCCTCGGCCCTGCGTGGTCTCGAGCTGGGTGA
GCGAGCGGGCGGGCTGGTAGGCTGGCCTGGGCTGCGACCGGCGGCTACGACTATTCTTTG
GCCGGGTGCGTGCAGTGGTGGCTGGGCTGGGCTGCGACCGGCGGCTACGACTATTCTTTG
TCCCGCGTCCACTCCCGGGAGCAGTGATGTTGGGCAACTCTGCGCCGGGGCTGCGACC
CGCGAGGCGGGCTCGGCCGTGCTAGCATTGCAGCAGACGGCGCTCCAAGAGGACCAGGAG
AATATCAACCCGAAAAGGCAGCGCCCGTCCAACAACCGCGGACCCGGGCCGCGCTGGCG
GTAAGTCCGGAAACCCGCGGGTCTAGCGCAGCAGAGGCCGAAGACGAGACGG
GTTGCACCCCTTAAGGATCTTCTGTAAATGATGAGCATGTCACCGTTCCTCCTTGAAA
GCAACAGTAAACAGCCTGCGTTCACCATTGATGGTGAAGCAGAAAAAGAAGCTCAG
AAGAAGCCAGTGAATCTCAAAAAATAGAGCGTGAAGATGCCCTGGCTTTTAATTCAGCC
ATTAGTTTACCTGGACCCAGAAAACCATGGTCCCTCTTGATTATCCAATGGATGGTAGT
TTTGAGTACCACATACTATGGACATGCAATTGTATTAGAAGATGAAAAGCCAGTGAGT
GTTAATGAAGTACCAGACTACCATGAGGATATTACACATACCTTAGGGAAATGGAGGTT
AAATGTAACCTAAAGTGGGTTACATGAAGAAACAGCCAGACATCACTAACAGTATGAGA
GCTATCCTCGTGGACTGGTTAGTTGAAGTAGGAGAAGAATATAAACTACAGAATGAGACC
CTGCATTTGGCTGTAACACTATTGATAGGTTCTGTCTTCCATGTCAGTGTGAGAGGA
AACTTACAGTTGTGGGCACTGTGCTATGCTGTTAGCCTCAAAGTTTGAAGAAATATAC
CCCCAGAAGTAGCAGAGTTTGTGTACATTACAGATGATACCTACACCAAGAAACAAGTT
CTGAGAATGGAGCATCTAGTTTTGAAAGTCCTTACTTTTGACTTAGCTGCTCCAACAGTA
AATCAGTTTCTTACCAATACTTTCTGCATCAGCAGCCTGCAAACTGCAAAGTTGAAAGT
TTAGCAATGTTTTGGGAGAATTAAGTTTGTAGATGCTGACCCATACCTCAAGTATTTG
CCATCAGTTATTGCTGGAGCTGCCTTTCAATTTAGCACTCTACACAGTCACGGGACAAAGC
TGGCCTGAATCATTAAACGAAAGACTGGATATACCCTGAAAAGTCTTAAGCCTTGTCTC
ATGGACCTTACCAGACTACCTCAAAGCACCACAGCATGCACAACAGTCAATAAGAGAA
AAGTACAAAAATTCAAAGTATCATGGTGTCTCTCCTCAACCCACCAGAGACTAAAT
CTGTAACAATGAAAGACTGCCTTTGTTTTCTAAGATGTAATCACTCAAAGTATATGGTG
TACAGTTTTAACTTAGGTTTTAATTTTACAATCATTTCTGAATACAGAAGTTGTGGCCA
AGTACAAATTATGGTATCTATTACTTTTTAAATGGTTTTAATTTGTATATCTTTGTATA
TGTATCTGTCTTAGATATTTGGCTAATTTTAAAGTGGTTTTGTTAAAGTATTAATGATGCC
AGCTGTCAGGATAATAAATTGATTTGAAAACCTTGCAAGTCAAATTTAACTTCTCAGG
ATTTTGCTTAGTAAAGAAGTTTACTTGGTTTACTATATAATGGGAAGTAAAAGCCTTCC
TCTAAAATTAAGTAGGTTTAGGAAAACAGACCCTCAAATTTGACATTCATTTTCTAA
GCAACTGGATCAATTTGCTGACTTG
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001237 unedited GGGTGCGGAATTGTATACGATTCCTATAGGCGGCCCGCAATCGGCACCAGGCTCCGGCG GGCTGCTCGTGTCATCTCTGGGCGTCTTTGGCTCGCCACGCTGGGCAGTGCCTGCCTGCG CCTTTTCGCAACCTCCTCGGCCCTGCGTGGTCTCGAGCTGGGTGAGCGAGCGGGCGGGCTG GTAGGCTGGCCTGGGCTGCGACCGGCGGCTACGACTATTCTTTGGCCGGGTGGTGGCAG TGGTCGGCTGGGCAGAGTGCACGCTGCTTGGCGCCGAGGCTGATCCCCGCGTCCACTCC CGGGAGCAGTGATGTTGGCAACTCTGCGCCGGGCGCTGCGACCCGCGAGGCGGGCTCGG CGCTGCTAGCATTGCAGCAGACGGCGCTCCAAGAGGACCAGGAGAATATCAACCCGGAAA AGGCAGCGCCCGTCCAACAACCGCGACCCGGGCGCGCTGGCGGTAAGTCCGGGA ACCCGCGGGGTCTAGCGCAGCAGAGGCCGAAGACGAGACGGGTTGCACCCCTTAAGG ATCTTCTGTAAATGATGAGCATGTCACCGTTCCTCCTTGAAAGCAAACAGTAAACAGC CTGCGTTCACCATTGATGGATGAAGCAGAAAAAGAAGCTCAGAAGAAGCCAGCTGAAT CTCAAAAAATAGAGCGTGAAGATGCCCTGGCTTTAATTCAGCCATTAGTTTACCTGGAC CCAGAAACCATTGGTCCCTCTTGATATCCAATGGATGGTAGTTTTGAGTACACATACTA TGGACATGTCAATTGATTAAGATGAAAGCCGTGAGTGTATGGAGTACCGNCTACCCT GAGGATATTCCACATACCTTAGGAAATGGAGCTAAAAGTAACCTAAGTGGGTACATGAA GAACGCN
Restriction Sites:	NotI-NotI
ACCN:	NM_001237
Insert Size:	2800 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:	<u>NM_001237.2</u> , <u>NP_001228.1</u>
RefSeq Size:	1682 bp
RefSeq ORF:	1299 bp
Locus ID:	890
UniProt ID:	<u>P20248</u>
Cytogenetics:	4q27
Domains:	cyclin_C, CYCLIN, cyclin

Protein Families: Druggable Genome, Stem cell - Pluripotency

Protein Pathways: Cell cycle, Progesterone-mediated oocyte maturation

Gene Summary: The protein encoded by this gene belongs to the highly conserved cyclin family, whose members function as regulators of the cell cycle. This protein binds and activates cyclin-dependent kinase 2 and thus promotes transition through G1/S and G2/M. [provided by RefSeq, Aug 2016]