

Product datasheet for **RC225786**

Cyclin A1 (CCNA1) (NM_001111045) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyclin A1 (CCNA1) (NM_001111045) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyclin A1
Synonyms:	CT146
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC225786 representing NM_001111045
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGACCGGCTTTCCGCAATCATGTACCCTGGATCTTTTATTGGGGCTGGGGAGAAGAGTATCTCA
 GCTGGGAAGGACCGGGCTCCCAGATTTCTGCTTCCAGCAGCCCGTGGAGTCTGAAGCAATGCAGCTGCAG
 CAACCCCAAGAGTGGAGTTGTGCTGGCTACAGTGGCCCGAGGTCCCGATGCTTGTGAGATACTCACCAGA
 GCCCCGCTGGCCAGGATCCCCGCAGAGGACAGTGTAGGGCTGCTAACTGCAAATGGGCAGTACAGGA
 GGACCTGTGGCCAGGGATCACAAGAATCAGGTGTTATTCTGGATCAGAAAATGCCTTCCCTCCAGCTGG
 AAAGAAAGCACTCCCTGACTGTGGGGTCCAAGAGCCCCCAAGCAAGGGTTTGACATCTACATGGATGAA
 CTAGAGCAGGGGGACAGAGACAGCTGCTCGGTGAGAGGGGATGGCATTGAGGATGTGTATGAAGTAG
 ACACCGGCACACTCAAGTCAGACCTGCCTTCTGCTGGATTTCAACACAGTTTCCCTATGCTGGTAGA
 TTCATCTCTCTCTCCAGTCTGAAGATATATCCAGTCTTGGCACAGATGTGATAAATGTGACTGAATAT
 GCTGAAGAAATTTATCAGTACCTTAGGGAAGCTGAAATAAGGCACAGACCCAAAGCACACTACATGAAGA
 AGCAGCCAGACATCACGGAAGGCATGCGCACGATTCTGGTGGACTGGCTGGTGGAGGTTGGGGAAGAATA
 TAAACTTCGAGCAGAGACCCTGTATCTGGCTGTCAACTTCTGGACAGGTTCTTTTCATGTATGTCTGTT
 CTGAGAGGGAAATGCAGCTCGTAGGAACAGCAGCTATGCTTTTGGCTTCGAAATATGAAGAGATATATC
 CTCCTGAAGTAGACGAGTTTGTCTATATCACCGATGATACATACAAAAACGACAACCTGTTAAAAATGGA
 ACACTTGTCTTCTGAAAGTTCTAGCTTTTGTCTGACAGTACCAACCACCAACAGTTTCTCCTTCAGTAC
 TTGAGGCGACAAGGAGTGTGCGTCAGGACTGAGAACCTGGCTAAGTACGTAGCAGAGCTGAGTCTACTTG
 AAGCAGATCCATTCTTGAATATCTTCTTCACTGATAGCTGCAGCAGCTTTTTCCTGGCAAATATATC
 TGTGAACAAGCACTTTTGGCCAGAAACCCTTGTGCAATTTACAGGGTATTCATTAAGTGAATTTGTCCT
 TGCTGAGTGAGCTTCATAAAGCGTACCTTGATATACCCCATCGACCTCAGCAAGCAATTAGGGAGAAGT
 ACAAGGCTTCAAAGTACCTGTGTGTGCTCCCTCATGGAGCCACCTGCAGTCTTCTCTACAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC225786 representing NM_001111045
 Red=Cloning site Green=Tags(s)

METGFPAIMYPGSFIGGWGEEYLSWEGPGLPDFVFPVESEAMHCSNPKSGVVLATVARGPDACQILTR
 APLGQDPPQRTVLGLLTANGQYRRTCGQGITRIRCYSGSENAFPPAGKKALPDCGVQEPKQGFDIYMDE
 LEQGDSDSCSVREGMAFEDVYVDTGTLKSDLHFLDFNTVSPMLVDSSLLSQSEDISSLGTDVINVTEY
 AEEIYQYLREAEIRHRPKAHYMKKQPDITEGMRTILVDWLVEVGEEYKLAETLYLAVNFLDRFLSCMSV
 LRGKQLQLVGTAAMLLASKYEEIYPPEVDFVYITDDTYTKRQLLMEHLLKVLAFDLTVPTTNQFLLQY
 LRRQGVCRVTENLAKYVAELSLLEADPFLKYLPSLIAAAAFCLANYTVNKHFWPETLAAFTGYSLSEIVP
 CLSELHKAYLDIPHRPQQAIREKYKASKYL CVSLMEPPAVLLLQ

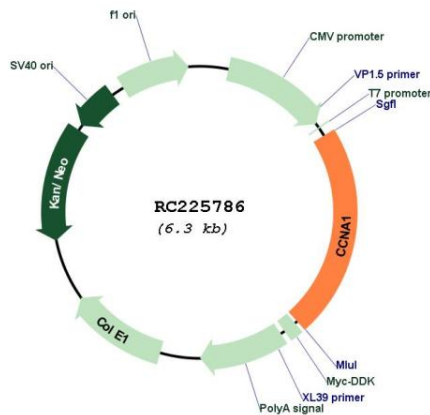
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Protein Families:	Druggable Genome
Protein Pathways:	Acute myeloid leukemia, Cell cycle, Pathways in cancer, Progesterone-mediated oocyte maturation
MW:	52 kDa
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. 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]

Product images:



Circular map for RC225786