

Product datasheet for RC201186

Cyclin (CCNI) (NM_006835) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyclin (CCNI) (NM_006835) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyclin
Synonyms:	CCNI1; CYC1; CYI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201186 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGTTTCCAGGGCCTTTGGAAAACCAGAGATTGTCTTTCCTGTTGGAAAAGGCAATCACTAGGGAAG
CACAGATGTGGAAAGTGAATGTGCGGAAAATGCCTTCAAATCAGAATGTTTCTCCATCCCAGAGAGATGA
AGTAATTCATGGCTGGCCAACTCAAGTACCAATTCAACCTTTACCCAGAAACATTTGCTCTGGCTAGC
AGTCTTTTGGATAGGTTTTAGCTACCGTAAAGGCTCATCCAAAATACTGAGTTGTATTGCAATCAGCT
GTTTTTCTAGCTGCCAAGACTGTTGAGGAAGATGAGAGAATCCAGTACTAAAGTATTGGCAAGAGA
CAGTTTCTGTGGATGTTCCCTCATCTGAAATTTGAGAATGGAGAGAATTATTCTGGATAAGTTGAATTGG
GATCTTACACAGCCACACCATTGGATTTTCTCATATTTTCCATGCCATTGCAGTGTCAACTAGGCCTC
AGTTACTTTTTCAGTTTGGCCAAATTGAGCCCATCTCAACATTTGGCAGTCCCTTACCAAGCAACTACTTCA
CTGTATGGCCTGCAACCAACTTCTGCAATTCAGAGGATCCATGCTTGCTCTGGCCATGGTTAGTCTGGAA
ATGGAGAACTCATTCTGATTGGCTTTCTTTACAATTGAACTGCTTGACAAAGCACAGATGGATAGCT
CCCAGTTGATCCATTGTCGGGAGCTTGTGGCACATCACCTTTCTACTCTGCAGTCTTCCCTGCCTGTGAA
TTCCGTTTATGTCTACCGTCCCCTCAAGCACACCCTGGTGACCTGTGACAAAGGAGTGTTCCAGATTACAT
CCCTCCTGTGCCAGGCCAGACTTCTCAAGGACAACAGCAAGCCAGAAGTGCCAGTCAGAGGTACAG
CAGCCTTTTACCATCATCTCCAGCTGCCAGTGGGTGCAAGCAGACCTCTACTAAACGCAAAGTAGAGGA
AATGGAAGTGGATGACTTCTATGATGGAATCAAACGGCTCTATAATGAAGATAATGTCTCAGAAAATGTG
GGTTCTGTGTGGCACTGATTTATCAAGACAAGAGGGACATGCTTCCCTTGTCCACCTTTGCAGCCTG
TTTCTGTCATG

ACGCGTACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201186 protein sequence
Red=Cloning site Green=Tags(s)

MKFFPGPLENQRLSFLLEKAITREAQMWKVNVRKMPSNQNVSPSQRDEVIQWLAKLKYQFNLYPETFALAS
 SLLDRFLATVKAHPKYLSCIAISCFFLAAKTVEEDERIPVLKVLARDSFCGCSSEILRMERIILDKLNW
 DLHTATPLDFLHIFHAIIVSTRPQLLFSLPKLSPSQHLAVLTKQLLHCMACNQLLQFRGSMALAMVSL
 MEKLIPDWLSLTIELLQKAQMDSSQLIHCRELVAHHLSTLQSSLPLNSVYVYRPLKHTLVTCDKGVFRLH
 PSSVPGPDFSKDNSKPEVPVRGTAIFYHHLPAASGCKQTSTKRKVEEMEVDDFYDGIKRLYNEDNVS
 GSVCGTDLSRQEGHASPCLPQVSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6395_e11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006835

ORF Size: 1131 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:**
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_006835.3](#)

RefSeq Size: 1890 bp

RefSeq ORF: 1134 bp

Locus ID: 10983

UniProt ID: [Q14094](#)

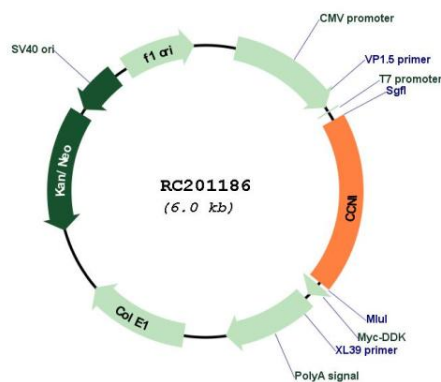
Cytogenetics: 4q21.1

Domains: CYCLIN, cyclin

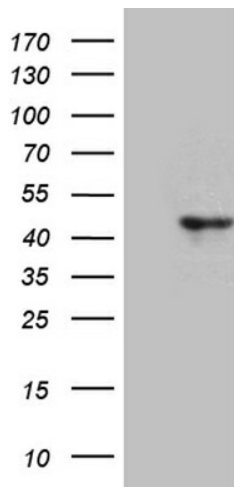
MW: 42.6 kDa

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. This cyclin shows the highest similarity with cyclin G. The transcript of this gene was found to be expressed constantly during cell cycle progression. [provided by RefSeq, Jan 2017]

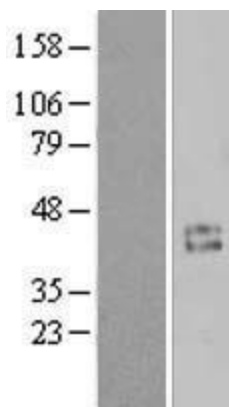
Product images:



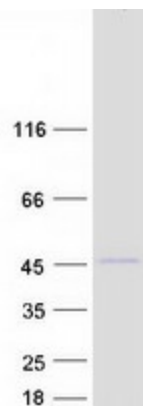
Circular map for RC201186



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CCNI (Cat# RC201186, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CCNI (Cat# [TA811170])(1:500). Positive lysates [LY416390] (100ug) and [LC416390] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY416390]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201186 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CCNI protein (Cat# [TP301186]). The protein was produced from HEK293T cells transfected with CCNI cDNA clone (Cat# RC201186) using MegaTran 2.0 (Cat# [TT210002]).