

Product datasheet for **RC204189**

Cyclin F (CCNF) (NM_001761) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyclin F (CCNF) (NM_001761) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyclin F
Synonyms:	FBX1; FBXO1; FTDALS5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC204189 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGAGCGCGCGTGGTCCACTGTAGGTGTGCCAAGTGTTCGTTATCCTACAAAGCGAAGAATAA
 GGAGGAGGCCCGAAACCTGACCATCTTGAGTCTCCCGAAGATGTGCTCTTTCACATCCTGAAATGGCT
 TTCTGTAGAGGACATCCTGGCCGTCGAGCTGTACACTCCAGCTGAAGGACCTGGTGGACAACCACGCC
 AGTGTGTGGGCATGTGCCAGCTTCCAGGAGCTGTGGCCGCTCCAGGGAACCTGAAGCTCTTTGAAAGGG
 CTGCTGAAAAGGGGAATTCGAAGCTGTGTGAAGCTGGGCATAGCCTACCTCTACAATGAAGGCCTGTC
 TGTGTCTGATGAGGCCCGCGAGAAGTGAATGGCCTGAAGGCCTCTCGTTCTTTCAGTCTCGCTGAGCGG
 CTGAATGTGGGTGCCGACCTTTCATCTGGCTTTCATCCGCCCTCCGTGGTGGTGAGCGGAAGCTGCT
 GCAAGGCCGTGGTTCACGAGAGCCTCAGGGCAGAGTGCCAGCTGCAGAGGACTCACAAAGCATCCATATT
 GCACTGCTTGGGCAGAGTCTGAGTCTGTTTCGAGGATGAGGAGAAGCAGCAGCAGGCCCATGACCTGTTT
 GAGGAGGCTGCTCATCAGGGATGTCTGACCAGCTCCTACCTCCTCTGGGAAAGCGACAGGAGGACAGATG
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 AGCGCAGCTGTCTTAGCCAAAGCCTGTGCAAATGCAAACAGCTTGGACTGGAGGTGAGAGCTTCCAGT
 GAGATCGTCTGCCAGCTATTTAGGCTTCCAGGCTGTGAGTAAACAACAAGTCTTCTCCGTGACAGAGG
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 AAGCCTGTGCCTGCACCTGACCGTGGAGTGTGTGGACCGGTACCTGCGGAGGAGGCTGGTGGCCGGTAC
 AGGCTCCAGCTGCTGGGCATCGCCTGCATGGTCTATCTGCACCCGGTTTATCAGTAAAGAGATCCTGACCA
 TCCGGGAGGCGGTATGGCTCACGGACAACACTTACAAGTACGAGGACCTGGTGAAGTATGATGGGCGGTA
 CGTCTCCGCCCTTGAAGGGAAGATTTCGAGTCCCACTGTGGTGGATTACAAGGAGGTCTGCTGACGCTA
 GTCCTGTGGAGCTGAGAACCAGCACCTGTGCAGCTTCTCTGCGAGCTCTCCCTGCTGCACACCAGCC
 TGTCCGCCTACGCCCCAGCCCGCTGGCTGCCGACCCCTGCTCCTGGCCAGACTGACGCACGGGAGAC
 ACAGCCCTGGACCACTCAGCTGTGGGACCTCACCGGATTCTCCTATGAAGACCTCATTCCCTGCGTCTTG
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 AGCAGCGTTTGGAGACAAGCGCTATGGAGAAATCAGCCAGGAAGAGGTGCTGAGCTACAGCCAGTTGTG
 TGCTGCATTAGGAGTGACACAAGACAGCCCGACCCCGACTTTCCTCAGCACAGGGGAGATCCACGCC
 TTCTCAGCTCTCCCTCGGGCGGAGAACCAACGGAAGCGGGAGAAGCAGCTCCAGGAAGACAGAGGCA
 GCTTCGTTACCACCCCACTGCGGAGCTGTCCAGCCAGGAGGAGACGCTGCTGGGAGCTTCTCGACTG
 GAGCCTGGACTGCTGCTCTGGCTATGAAGGCGACCAGGAGAGTGAGGGCGAGAAGGAGGGCGACGTGACA
 GCTCCAGCGGCATCCTCGATGTACCGTGGTCTACCTGAACCCAGAACAGCATTGCTGCCAGGAATCCA
 GTGATGAGGAGGCTTGTCCAGAGGACAAGGGACCCAGGACCCACAGGCACTGGCGCTGGACACCCAGAT
 CCCTGCAACCCCTGGACCCAAACCCCTGGTCCGCACCAGCCGGGAGCCAGGGAAGGACGTACGACCTCA
 GGGTACTCCTCCGTGACGACCCGAAGTCCACAAAGCTCCGTGGACGGTGGCTTGGGGCCCTGCCCAAC
 CTACCTCAGTGTGTCCTGGACAGTACTCGCACACAGCCCTGCCACCATCAGGCCAGGAAGTCAATG
 TTTACAGTGTGTCCTCCCAAGTCCCGGAGAGCAGTGTCCCAAGCAACAGGTGAAGCGGATAAACCTA
 TGCATACAGTGAGGAGGAGGACATGAACCTGGCCCTTGTGAGGCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204189 protein sequence
Red=Cloning site Green=Tags(s)

MGSGGVVHCRCACFCYPTKRRIRRRPRNLTILSLPEDVLFHILKWL SVEDILAVRAVHSQLKDLVDNHA
SVWACASFQELWPSGNLKL FERA AEKGNFEAAVKLGIAYL YNEGLSVSDEARAEVNLKASRFFSLAER
LNVGAAPFIWLFIRPPWSVSGSCCKAVVHESLRAECLQRTHKASILHCLGRVLSLFEDEEKQQAHDLF
EEAAHQGCLTSSYLLWESDRRTDVS DPGRCLHSFRKLRDYAAKGCWEAQLSLAKACANANQLGLEVRASS
EIVCQLFQASQAVSKQQVFSVQKGLNDTMRYILIDWLVEVATMKDFTSLCLHLTVECVDRYLRRRLVPRY
RLQLLGIACMVICTRFISKEILTIREAVWLT DNTYKYEDLVRMMGEIVSALEGKIRVPTVVVYKEVLLTL
VPVELRTQHLCSFLCELSLLHTSL SAYAPARLAAAALLARLTHGQTQPWTTQLWDLTGFSYEDLIPCVL
SLHKKCFHDDAPKDYRQVSLTAVKQRFEDKRYGEISQEEVLSYSQLCAALGVTQDSPDPPTFLSTGEIHA
FLSSPSGRRTKRKRENSLQEDRGSFVTTPTAELSSQEETLLGSFLDWSLDCCSGYEGDQESEGEKEGDVT
APSGILDVTVVYLNPEQHCCQESSDEEACPEDKGPQDPQALALDTQIPATPGPKPLVRTSREPGKDVTTTS
GYSSVSTASPTSSVDGGLGALPQPTS VLSLSDSHTQPCHHQARKSCLQCRPPSPPESSVPQQQVKRINL
CIHSEEDMNLGLVRL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6291_b01.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001761

ORF Size: 2358 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_001761.3](#)

RefSeq Size: 4287 bp

RefSeq ORF: 2361 bp

Locus ID: 899

UniProt ID: [P41002](#)

Cytogenetics: 16p13.3

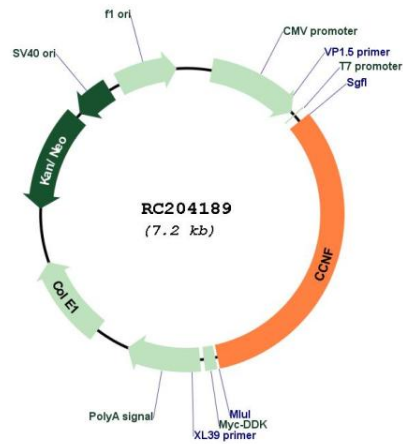
Domains: F-box, cyclin_C, CYCLIN, cyclin

Protein Families: Druggable Genome

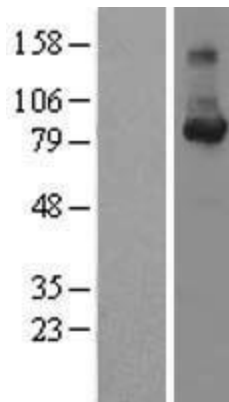
MW: 87.6 kDa

Gene Summary: This gene encodes a member of the cyclin family. Cyclins are important regulators of cell cycle transitions through their ability to bind and activate cyclin-dependent protein kinases. This member also belongs to the F-box protein family which is characterized by an approximately 40 amino acid motif, the F-box. The F-box proteins constitute one of the four subunits of the ubiquitin protein ligase complex called SCFs (SKP1-cullin-F-box), which function in phosphorylation-dependent ubiquitination. The F-box proteins are divided into 3 classes: Fbws containing WD-40 domains, Fbls containing leucine-rich repeats, and Fbxs containing either different protein-protein interaction modules or no recognizable motifs. The protein encoded by this gene belongs to the Fbxs class and it was one of the first proteins in which the F-box motif was identified. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC204189



Western blot validation of overexpression lysate (Cat# [LY419758]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204189 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).