

Product datasheet for **RC226198**

CDC27 (NM_001114091) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC27 (NM_001114091) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CDC27
Synonyms:	ANAPC3; APC3; CDC27Hs; D0S1430E; D17S978E; H-NUC; HNUC; NUC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC226198 representing NM_001114091
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGACGGTGTGCAGGAACCCGTCAGGCTGCTATATGGCAAGCACTAAACCACTATGCTTACCGAGATG
CGGTTTTCTCGCAGAAGCCTTTATGCAGAAGTACACTCAGAAGAAGCCTTGTTTTACTGGCAACCTG
TTATTACCGCTCAGGAAAAGGCATATAAAGCATATAGACTCTTGAAAGGACACAGTTGTAACACCGCAA
TGCAAATACCTGCTTGCAAAATGTTGTGTGATCTCAGCAAGCTTGCAAGGGGAACAAATCTTATCTG
GTGGAGTGTAAATAAGCAGAAAAGCCATGATGATATTGTTACTGAGTTTGGTGATTGAGCTTGTCTTAC
TCTTTCATTGTTGGGACATGTATATTGCAAGACAGATCGGCTTGCCAAAGGATCAGAATGTTACCAAAAAG
AGCCTTAGTTAAATCCTTCTGCTCCCTTTGAATCATTATGTGAAATAGGTGAAAAGCCAGATC
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AGTACCTAATCATAGTTTATCTCACAGACAGCCTGAGACAGTTCTTACGAAAACACCCAGGACACAATT
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TGCCAGAATCGGCCAACTGGAACAAAGTCTGTCTTCTCACAGAGTGAAATAGCCGAGAGGTAACCTCA
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CCTATTTGAACTTTGAGAGTACATGCAAGCTGAAAGAATATTCTCAGAGGTTAGAAGGATTGAGAATTA
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AGGAGCCAATAACCCAAGAAGACAGATCATGGGAACAGATGAATCCCAGGAGAGCAGCATGACAGATGC
GGATGACACACAACCTTATGCAGCTGAAAGTGAATTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226198 representing NM_001114091
Red=Cloning site Green=Tags(s)

MTVLQEPVQAAIWQALNHAYRDAVFLAERLYAEVHSEEALFLLATCYRSGKAYKAYRLLKGHSCTTPQ
CKYLLAKCCVDL SKLAEGEQILSGGVFNKQKSHDDIVTEFGDSACFTLSLLGHVYCKTDRLAKGSECYQK
SLSLNPFLWSPFESLCEIGEKDPDQTFKFTSLQNF SNCLPNSCTTQVPNHSLSHRQPETVLTETPQDTI
ELNRLNLESSNSKYSLNTDSSVSYIDSAVISPDTPVPLGTGTSILSKVQNKPKTGRSLLGGPAALSPLTP
SFGILPLETPSPGDG SYLQNYTNTPPVIDVPSTGAPSKKTFRVLQSVARIGQTGKSVFSQSGNSREVTP
ILAQTQSSGPQTSTTPQVLSPITITSPPNALPRRSRLFTSDSSTTKENSKKLMKFPPKIPNRKTKSKTN
KGGITQPNINDSLEITKLDSSIISEGKISTITPQIQAFNLQKAAAEGMSLLREMGKGYLALCSYNCKEA
INILSHLPSHHYNTGWVLCQIGRAYFELSEYMQAERIFSEVRRRIENYRVEGMEIYSTTLWHLQKDVALSV
LSKDLTMDKNSPEAWCAAGNCFSLQREHDI AIKFFQRAIQVDPNYAYAYTLGHEFVLTEELDKALACF
RNAIRVNPRHYNAWYGLGMIYYKQEKFLAEMHFQKALDINPQSSVLLCHIGVVQHALKKSEKALDTLNK
AIVIDPNPLCKFHRSVLFANEKYKSALQELEELKQIVPKESLVYFLIGKVYKKGQTHLALMNF SWAM
DLDPKGANNQIKEAIDKRYLPDDEEPI TQEEQIMGTDESQESSMTDADDTQLHAAESDEF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3693_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001114091

ORF Size: 2490 bp

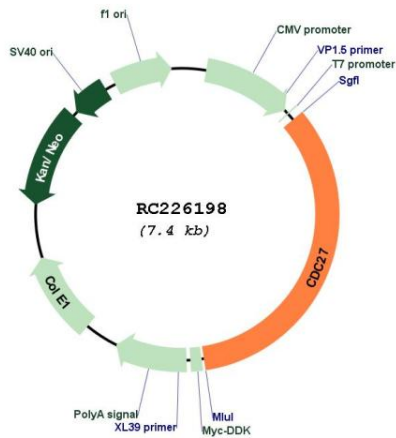
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

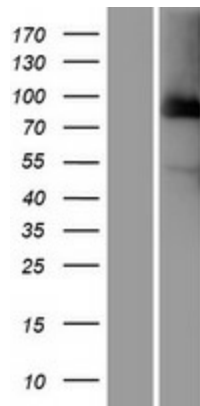
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<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_001114091.4
RefSeq ORF:	2493 bp
Locus ID:	996
UniProt ID:	P30260
Cytogenetics:	17q21.32
Protein Families:	Druggable Genome
Protein Pathways:	Cell cycle, Oocyte meiosis, Progesterone-mediated oocyte maturation, Ubiquitin mediated proteolysis
MW:	92.4 kDa
Gene Summary:	<p>The protein encoded by this gene shares strong similarity with <i>Saccharomyces cerevisiae</i> protein Cdc27, and the gene product of <i>Schizosaccharomyces pombe</i> nuc 2. This protein is a component of the anaphase-promoting complex (APC), which is composed of eight protein subunits and is highly conserved in eukaryotic cells. This complex catalyzes the formation of cyclin B-ubiquitin conjugate, which is responsible for the ubiquitin-mediated proteolysis of B-type cyclins. The protein encoded by this gene and three other members of the APC complex contain tetratricopeptide (TPR) repeats, which are important for protein-protein interactions. This protein was shown to interact with mitotic checkpoint proteins including Mad2, p55CDC and BUBR1, and it may thus be involved in controlling the timing of mitosis. Alternative splicing of this gene results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 2, 22 and Y. [provided by RefSeq, May 2014]</p>

Product images:



Circular map for RC226198



Western blot validation of overexpression lysate (Cat# [LY426445]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226198 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).