

Product datasheet for **SC119338**

CDC27 (NM_001256) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC27 (NM_001256) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDC27
Synonyms:	ANAPC3; APC3; CDC27Hs; D0S1430E; D17S978E; H-NUC; HNUC; NUC2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC119338 sequence for NM_001256 edited (data generated by NextGen Sequencing)

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ATGACGGTGTGCAGGAACCCGTCAGGCTGCTATATGGCAAGCACTAAACCACTATGCT
TACCGAGATGCGGTTTTCTCGCAGAACGCCTTATGCAGAAGTACACTCAGAAGAAGCC
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GATCTCAGCAAGCTTGCAAGGGGAACAAATCTTACTGGTGGAGTGTTAATAAGCAG
AAAAGCCATGATGATATTGTTACTGAGTTGGTGATTACGCTTGCTTTACTCTTTCAATTG
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AGCCTTAGTTAAATCCTTCTGCTCCCTTTGAATCATTATGTGAAATAGGTGAA
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CTCTTTACTAGTGACAGCTCCACAACCAAGGAGAATAGCAAAAATTAATAAAGTAAAGTTT
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CCTAACATAAATGATAGCCTGGAAATTACAAAATTTGGACTCTTCCATCATTTTCAGAAAGG
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GATGAATCCCAGGAGAGCAGCATGACAGATGCGGATGACACACAAGTTCATGCAGCTGAA
AGTGATGAATTTTAA
    
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Clone variation with respect to NM_001256.3
 1377 a=>n;1378 g=>n;1379 a=>n

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001256 unedited
 ATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCCCGGTAACGGTCGCTGGT
 GAGTTTAAATGAGCAGGGGCTGGCCGGCCGGAGCCGCTACAGGGGGGGCCTGAGGCACT
 GCAGAAAGTGGGCTGAGCCTCGAGGATGACGGTGCTGCAGGAACCCGTCAGGCTGCTA
 TATGGCAAGCACTAAACCACTATGCTTACCGAGATGCGGTTTTCTCGCAGAACGCCTTT
 ATGCAGAAGTACACTCAGAAGAAGCCTTGTCTTACTGGCAACCTGTTATTACCGCTCAG
 GAAAGGCATATAAGCATATAGACTCTTGAAAGGACACAGTTGTAACACCCGCAATGCA
 AATACCTGCTTGCAAAATGTTGTGTTGATCTCAGCAAGCTTGCAAGGGGAACAAATCT
 TATCTGGTGGAGTGTATAAAGCAGAAAAAGCCATGATGATATTGTTACTGAGTTTGGTG
 ATTCAGCTTGCTTACTCTTTCATTGTTGGGACATGTATATTGCAAGACAGATCGGCTTG
 CCAAAGGATCAGAATGTTACAAAAGAGCCTTAGTTTAAATCCTTTCCTCTGGTCTCCCT
 TTGAATCATTATGTGAAATAGGTGAAAAGCCAGATCCTGACCAAACATTTAAATTCACAT
 CTTTACAGAACTTAGCAACTGTCTGCCAACTCTGCACAACACAAGTACCTAATCATA
 GTTTATCTCACAGACAGCCTGAGACAGTTCTTACGGAAACACCCAGGACACAATTGAAT
 TAAACAGATTGAATTTAGAAATCTCAATTCAAAGTACTCCTTGAATACAGATTCCTCAG
 TGGTCTATATTGATNCAGCTGAATTCACCTGATACTGTNCCACTGGGAACAGGAACTTC
 CATATATCTAAACAGGNTCANAATAACCAAACTGGNTCGAAGNTATTANGAGGACAGCA
 GCTCTTAGTCCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001256 unedited
 GCCGCTTCTAAAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAACTGTTAT
 AGGCAACGTCTTTTATTGTTCCATCTGGCACTTGCAAACACCATTCTTGAAAAACCTAAA
 AATGAAGTCAAGTACTCTGTTTATCAGGAACAGAACCAATTAATAACAATTTTTTGAAA
 AAGCAACCAAAAACTCTGGTTCATCACTATTTCCATATCTAATGGTTCCTTCAAATA
 AAGCATAACTCTTCTTTCATGATACTTCCAACAAGGGAGATTAAGAAAAACAGAAA
 AGAAAGTCCCCACCCTACCCCCATAAATGGTCATTCATACTGGAAAAAAGCCAGTCT
 TGTTAGCAGCTAAATATTGCACTGCCTTTCATTCTGTATACAGCCAGGGTCCAATGAAAG
 GGGCACTCATGGTTAAGGGACGGACGATGACACCGCCAGCTCAAGAGTAAAGACTCA
 GTTCCAGAGGGACAAGAAACACGTGAGCACTATTCACACATCCAGTTGTAAGGCTGA
 TTTCCAGAAAGTTAAAATTCATCACTTTCACCTGCATGAAGTTGTGGGTCTCCGCTTG
 TTATGCTGCTCTCTGGGATTCATCTGTCCCATGATCTGTTCTTCTTGGGTTATTGGC
 TCCTCATCATTGGAAAAACGCTAATCAATGGCCTCTTTATTTGGTATTGCTCCTTT
 AGGATCAAAATCCAACCCAAAAAATTTCTCAGGGCGAGGGCCGTGGACCTTATTCTGTG
 AAACCTTCTCTTAATAATAAACGAGGACTCTTTGGAACATATGTTCAATTTTCAATTCT
 TGAAAACCACTTTTCTTTTTTGTCAAAAAATGAGCCCTGGGATTTTCATAAGGGTTTCG
 GAAAAATAACAGGTCTTGTAGGGTCAAACCCTCTGTTTTTACGCGCGGTACCTCAC
 AGGGCACATAT

Restriction Sites:

NotI-NotI

ACCN:

NM_001256

Insert Size:

3180 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:

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_001256.2](#), [NP_001247.2](#)

RefSeq Size: 3277 bp

RefSeq ORF: 2475 bp

Locus ID: 996

UniProt ID: [P30260](#)

Cytogenetics: 17q21.32

Domains: TPR

Protein Families: Druggable Genome

Protein Pathways: Cell cycle, Oocyte meiosis, Progesterone-mediated oocyte maturation, Ubiquitin mediated proteolysis

Gene Summary: The protein encoded by this gene shares strong similarity with *Saccharomyces cerevisiae* protein Cdc27, and the gene product of *Schizosaccharomyces pombe* 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, p53CDC 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]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the central coding region, compared to variant 1, resulting in an isoform (2) that is shorter than isoform 1.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.