

## Product datasheet for **SC318990**

### CDC27 (NM\_001114091) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CDC27 (NM\_001114091) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** CDC27  
**Synonyms:** ANAPC3; APC3; CDC27Hs; D0S1430E; D17S978E; H-NUC; HNUC; NUC2  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL5  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_001114091 edited  
 CCCC GGTAACGGTCGCTGGTGAGTTTAAATGAGCAGGGGCTGGCCGGCCGGAGCCGCTA  
 CAGGGGGGGCCTGAGGCACTGCAGAAAGTGGCCCTGAGCCTCGAGGATGACGGTGTGCA  
 GGAACCCGTCCAGGCTGCTATATGGCAAGCACTAAACCACTATGCTTACCGAGATGCGGT  
 TTTCTCGCAGAACGCCTTTATGCAGAAGTACTCAGAAAGAAGCCTTGTTTTACTGGC  
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 TTGTAACACCGCAATGCAAAATACCTGCTTGCAAAATGTTGTGTGATCTCAGCAAGCT  
 TGCAGAAGGGGAACAAATCTTATCTGGTGGAGTGTTAATAAGCAGAAAAGCCATGATGA  
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CAACTGCAAAGAAGCTATAAATATTTTGGCCATCTACCTTCTCACCCTACAATACTGG
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CCTGATAAACAGAGTAACTGACCTTCATTTCTAGGTTCTCAAGAATGGTGTTCGCAAGT
GCCAGATGGAACAATAAAAGACGTTGCCTATAACAGTGAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAA
    
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- Restriction Sites:** Please inquire
- ACCN:** NM\_001114091
- Insert Size:** 3100 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).
- OTI Annotation:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM\_001114091.1.
- 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:	<a href="#">NM_001114091.1</a> , <a href="#">NP_001107563.1</a>
RefSeq Size:	5611 bp
RefSeq ORF:	2493 bp
Locus ID:	996
UniProt ID:	<a href="#">P30260</a>
Cytogenetics:	17q21.32
Protein Families:	Druggable Genome
Protein Pathways:	Cell cycle, Oocyte meiosis, Progesterone-mediated oocyte maturation, Ubiquitin mediated proteolysis
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> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest 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.</p>