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Product datasheet for SC337530

CDC27 (NM_001293089) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC27 (NM_001293089) Human Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF:

>NCBI ORF sequence for NM_001293089, the custom clone sequence may differ by one or more nucleotides

ATGACGGTGCTGCAGGAACCCGTCCAGGCTGCTATATGGCAAGCACTAAACCACTATGCTTACCGAGATG
CGGTTTTCCTCGCAGAACGCCTTTATGCAGAAGTACACTCAGAAGAAGCCTTGTTTTTACTGGCAACCTG
TTATTACCGCTCAGGAAAGGCATATAAAGCATATAGACTCTTGAAAGGACACAGTTGTACTACACCGCAA
TGCAAATACCTGCTTGCAAAATGTTGTGTTGATCTCAGCAAGCTTGCAGAAGGGGAACAAATCTTATCTG
GTGGAGTGTTTAATAAGCAGAAAAGCCATGATGATATTGTTACTGAGTTTGGTGATTCAGCTTGCTTTAC
TCTTTCATTGTTGGGACATGTATATTGCAAGACAGATCGGCTTGCCAAAGGATCAGAATGTTACCAAAAG
AGCCTTAGTTTAAATCCTTTCCTCTGGTCTCCCTTTGAATCATTATGTGAAATAGGTGAAAAGCCAGATC
CTGACCAAACATTTAAATTCACATCTTTACAGAACTTTAGCAACTGTCTGCCCAACTCTTGCACAACACA
AGTACCTAATCATAGTTTATCTCACAGACAGCCTGAGACAGTTCTTACGGAAACACCCCAGGACACAATT
GAATTAAACAGATTGAATTTAGAATCTTCCAATTCAAAGTACTCCTTGAATACAGATTCCTCAGTGTCTT
ATATTGATTCAGCTGTAATTTCACCTGATACTGTCCCACTGGGAACAGGAACTTCCATATTATCTAAACA
GGTTCAAAATAAACCAAAAACTGGTCGAAGTTTATTAGGAGGACCAGCAGCTCTTAGTCCATTAACCCCA
AGTTTTGGGATTTTGCCATTAGAAACCCCAAGTCCTGGAGATGGATCCTATTTACAAAACTACACTAATA
CACCTCCTGTAATTGATGTGCCATCCACCGGAGCCCCTTCAAAAAAGTCTGTTGCCAGAATCGGCCAAAC
TGGAACAAAGTCTGTCTTCTCACAGAGTGGAAATAGCCGAGAGGTAACTCCAATTCTTGCACAAACACAA
AGTTCTGGTCCACAAACAAGTACAACACCTCAGGTATTGAGCCCCACTATTACATCTCCCCCAAACGCAC
TGCCTCGAAGAAGTTCACGACTCTTTACTAGTGACAGCTCCACAACCAAGGAGAATAGCAAAAAATTAAA
AATGAAGTTTCCACCTAAAATCCCAAACAGAAAAACAAAAAGTAAAACTAATAAAGGAGGAATAACTCAA
CCTAACATAAATGATAGCCTGGAAATTACAAAATTGGACTCTTCCATCATTTCAGAAGGGAAAATATCCA
CAATCACACCTCAGATTCAGGCCTTTAATCTACAAAAAGCAGCAGCAGGTTTGATGAGCCTTCTTCGTGA
AATGGGGAAAGGTTATTTAGCTTTGTGTTCATACAACTGCAAAGAAGCTATAAATATTTTGAGCCATCTA
CCTTCTCACCACTACAATACTGGTTGGGTACTGTGCCAAATTGGAAGGGCCTATTTTGAACTTTCAGAGT
ACATGCAAGCTGAAAGAATATTCTCAGAGGTTAGAAGGATTGAGAATTATAGAGTTGAAGGCATGGAGAT
CTACTCTACAACACTTTGGCATCTTCAAAAAGATGTTGCTCTTTCAGTTCTGTCAAAAGACTTAACAGAC
ATGGATAAAAATTCGCCAGAGGCCTGGTGTGCTGCAGGGAACTGTTTCAGTCTGCAACGGGAACATGATA
TTGCAATTAAATTCTTCCAGAGAGCTATCCAAGTTGATCCAAATTACGCTTATGCCTATACTCTATTAGG
GCATGAGTTTGTCTTAACTGAAGAATTGGACAAAGCATTAGCTTGTTTTCGAAATGCTATCAGAGTCAAT
CCTAGACATTATAATGCATGGTATGGTTTAGGAATGATTTATTACAAGCAAGAAAAATTCAGCCTTGCAG
AAATGCATTTCCAAAAAGCGCTTGATATCAACCCTCAAAGTTCAGTTTTACTTTGCCACATTGGAGTAGT
TCAACATGCACTGAAAAAATCAGAGAAGGCTTTGGATACCCTAAACAAAGCCATTGTCATTGATCCCAAG
AACCCTCTATGCAAATTTCACAGAGCCTCAGTTTTATTTGCAAATGAAAAATATAAGTCTGCTTTACAAG
AACTTGAAGAATTGAAACAAATTGTTCCCAAAGAATCCCTCGTTTACTTCTTAATAGGAAAGGTTTACAA
GAAGTTAGGTCAAACGCACCTCGCCCTGATGAATTTCTCTTGGGCTATGGATTTAGATCCTAAAGGAGCC
AATAACCAGATTAAAGAGGCAATTGATAAGCGTTATCTTCCAGATGATGAGGAGCCAATAACCCAAGAAG
AACAGATCATGGGAACAGATGAATCCCAGGAGAGCAGCATGACAGATGCGGATGACACACAACTTCATGC
AGCTGAAAGTGATGAATTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001293089

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_001293089.1, NP_001280018.1
RefSeq Size:	5850 bp
RefSeq ORF:	2472 bp
Locus ID:	996
Cytogenetics:	17q21.32
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, 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] Transcript Variant: This variant (3) uses two alternate in-frame splice sites in the central coding region, compared to variant 1, resulting in an isoform (3) 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.