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Product datasheet for SC337406

CDC27 (NM_001293091) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC27 (NM_001293091) 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_001293091, the custom clone sequence may differ by one or more nucleotides

ATGGCAAGCACTAAACCACTATGCTTACCGAGATGCGGTTTTCCTCGCAGAACGCCTTTATGCAGAAGGC
TTGCAGAAGGGGAACAAATCTTATCTGGTGGAGTGTTTAATAAGCAGAAAAGCCATGATGATATTGTTAC
TGAGTTTGGTGATTCAGCTTGCTTTACTCTTTCATTGTTGGGACATGTATATTGCAAGACAGATCGGCTT
GCCAAAGGATCAGAATGTTACCAAAAGAGCCTTAGTTTAAATCCTTTCCTCTGGTCTCCCTTTGAATCAT
TATGTGAAATAGGTGAAAAGCCAGATCCTGACCAAACATTTAAATTCACATCTTTACAGAACTTTAGCAA
CTGTCTGCCCAACTCTTGCACAACACAAGTACCTAATCATAGTTTATCTCACAGACAGCCTGAGACAGTT
CTTACGGAAACACCCCAGGACACAATTGAATTAAACAGATTGAATTTAGAATCTTCCAATTCAAAGTACT
CCTTGAATACAGATTCCTCAGTGTCTTATATTGATTCAGCTGTAATTTCACCTGATACTGTCCCACTGGG
AACAGGAACTTCCATATTATCTAAACAGGTTCAAAATAAACCAAAAACTGGTCGAAGTTTATTAGGAGGA
CCAGCAGCTCTTAGTCCATTAACCCCAAGTTTTGGGATTTTGCCATTAGAAACCCCAAGTCCTGGAGATG
GATCCTATTTACAAAACTACACTAATACACCTCCTGTAATTGATGTGCCATCCACCGGAGCCCCTTCAAA
AAAGTCTGTTGCCAGAATCGGCCAAACTGGAACAAAGTCTGTCTTCTCACAGAGTGGAAATAGCCGAGAG
GTAACTCCAATTCTTGCACAAACACAAAGTTCTGGTCCACAAACAAGTACAACACCTCAGGTATTGAGCC
CCACTATTACATCTCCCCCAAACGCACTGCCTCGAAGAAGTTCACGACTCTTTACTAGTGACAGCTCCAC
AACCAAGGAGAATAGCAAAAAATTAAAAATGAAGTTTCCACCTAAAATCCCAAACAGAAAAACAAAAAGT
AAAACTAATAAAGGAGGAATAACTCAACCTAACATAAATGATAGCCTGGAAATTACAAAATTGGACTCTT
CCATCATTTCAGAAGGGAAAATATCCACAATCACACCTCAGATTCAGGCCTTTAATCTACAAAAAGCAGC
AGCAGAAGGTTTGATGAGCCTTCTTCGTGAAATGGGGAAAGGTTATTTAGCTTTGTGTTCATACAACTGC
AAAGAAGCTATAAATATTTTGAGCCATCTACCTTCTCACCACTACAATACTGGTTGGGTACTGTGCCAAA
TTGGAAGGGCCTATTTTGAACTTTCAGAGTACATGCAAGCTGAAAGAATATTCTCAGAGGTTAGAAGGAT
TGAGAATTATAGAGTTGAAGGCATGGAGATCTACTCTACAACACTTTGGCATCTTCAAAAAGATGTTGCT
CTTTCAGTTCTGTCAAAAGACTTAACAGACATGGATAAAAATTCGCCAGAGGCCTGGTGTGCTGCAGGGA
ACTGTTTCAGTCTGCAACGGGAACATGATATTGCAATTAAATTCTTCCAGAGAGCTATCCAAGTTGATCC
AAATTACGCTTATGCCTATACTCTATTAGGGCATGAGTTTGTCTTAACTGAAGAATTGGACAAAGCATTA
GCTTGTTTTCGAAATGCTATCAGAGTCAATCCTAGACATTATAATGCATGGTATGGTTTAGGAATGATTT
ATTACAAGCAAGAAAAATTCAGCCTTGCAGAAATGCATTTCCAAAAAGCGCTTGATATCAACCCTCAAAG
TTCAGTTTTACTTTGCCACATTGGAGTAGTTCAACATGCACTGAAAAAATCAGAGAAGGCTTTGGATACC
CTAAACAAAGCCATTGTCATTGATCCCAAGAACCCTCTATGCAAATTTCACAGAGCCTCAGTTTTATTTG
CAAATGAAAAATATAAGTCTGCTTTACAAGAACTTGAAGAATTGAAACAAATTGTTCCCAAAGAATCCCT
CGTTTACTTCTTAATAGGAAAGGTTTACAAGAAGTTAGGTCAAACGCACCTCGCCCTGATGAATTTCTCT
TGGGCTATGGATTTAGATCCTAAAGGAGCCAATAACCAGATTAAAGAGGCAATTGATAAGCGTTATCTTC
CAGATGATGAGGAGCCAATAACCCAAGAAGAACAGATCATGGGAACAGATGAATCCCAGGAGAGCAGCAT
GACAGATGCGGATGACACACAACTTCATGCAGCTGAAAGTGATGAATTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001293091

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_001293091.1, NP_001280020.1
RefSeq Size:	5705 bp
RefSeq ORF:	2292 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 (4) lacks an alternate exon in the 5' region and it thus differs in its 5' UTR and initiates translation at an alternate start codon, and it also uses an alternate in-frame splice site in the central coding region, compared to variant 1. The encoded isoform (4) has a distinct N-terminus and 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.