

Product datasheet for **SC126574**

CDC7 (NM_003503) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC7 (NM_003503) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDC7
Synonyms:	CDC7L1; HsCDC7; Hsk1; huCDC7
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_003503, the custom clone sequence may differ by one or more nucleotides

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ATGGAGGCGTCTTTGGGATTGAGTGGATGAGCCAATGGCTTTTTCTCCCAGCGTGACCGGTTTCAGG
CTGAAGGCTCTTTAAAAAAAACGAGCAGAATTTAAACTTGCAGGTGTTAAAAAAGATATTGAGAAGT
TTATGAAGCTGTACCACAGCTTAGTAATGTGTTTAAAGATTGAGGACAAAATGGAGAAGGCACTTTCAGC
TCTGTTTTATTTGGCCACAGCACAGTTACAAGTAGGACCTGAAGAGAAAATGCTCTAAAACACTTGATT
CAACAAGTCATCCTATAAGAATTGCAGCTGAACCTCAGTGCCTAACAGTGGCTGGGGGCAAGATAATGT
CATGGGAGTTAAATACTGCTTTAGGAAGAATGATCATGTAGTTATTGCTATGCCATATCTGGAGCATGAG
TCGTTTTTGGACATTCTGAATCTCTTTCTTTCAAGAAGTACGGGAATATATGCTTAATCTGTTCAAAG
CTTTGAAACGCATTTCATCAGTTTGGTATTGTTCCACCGTATGTTAAGCCCAGCAATTTTTATATAATAG
GCGCCTGAAAAAGTATGCCTTGGTAGACTTTGGTTTGGCCCAAGGAACCCATGATACGAAAATAGAGCTT
CTTAAATTTGCCAGTCTGAAGCTCAGCAGGAAAGGTGTTCAAAAACAAATCCACATAATCACAGGAA
ACAAGATTCCTGAGTGGCCAGTACCTAAGGAGCTGGATCAGCAGTCCACCACAAAAGCTTCTGTTAA
AAGACCCTACACAAATGCACAAATTCAGATTAACAAGGAAAAGACGGAAAGGAGGGATCTGTAGGCCTT
TCTGTCCAGCGCTCTGTTTTGGAGAAAAGAAATTTCAATATACACAGCTCCATTTACATGAGAGCCCTG
CAGTGAAACTCATGAAGCAGTCAAAGACTGTGGATGACTGTCTAGAAAAGTTAGCAACAAAAAAGAAGGC
TATTTCTACAAAAGTTATGAATAGTGTGTGATGAGGAAAAGTCCAGTTCTTGGCCAGCTAGCCTGACC
TGTGACTGCTATGCAACAGATAAAGTTTGTAGTATTTGCCTTTCAAGGCGTCAGCAGGTTGCCCTAGGG
CAGGTACACCAGGATTCAGAGCACCAGAGGCTTGACAAAAGTGCCTCAATCAAACACAGCAATTCAGAT
GTGGCTGCAGGTGTCATATTTCTTTCTTTAGTGGACGATATCCATTTTATAAAGCAAGTGTATGAT
TTAACTGCTTTGGCCAAATTAAGCAATTAAGGGATCCAGAGAACTATCCAAGTGTCTAAAACTTTTG
GGAAATCAATATTATGTAGCAAAGAAAGTCCAGCACAAGACTTGAGAAAACCTCTGTGAGAGACTCAGGGG
TATGGATTCTAGCACTCCAAGTTAACAAGTATACAAGGGCATGCTTCTCATCAACCAGCTATTTCA
GAGAAGACTGACCATAAAGCTTCTTGCCTCGTTCAAACACCTCCAGGACAATACTCAGGGAATTCATTTA
AAAAGGGGATAGTAATAGCTGTGAGCATTGTTTTGATGAGTATAATACCAATTTAGAAGGCTGGAATGA
GGTACCTGATGAAGCTTATGACCTGCTTGATAAATCTAGATCTAAATCCAGCTTCAAGAATAACAGCA
GAAGAAGCTTTGTTGCATCCATTTTTAAAGATATGAGCTTGTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003503 unedited

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TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGTGGAGACGGCGAC
CCAGGCATCTGGGGAGCCACAGAAGTCTACTCCCTTAAACCCTGCTTTGCTCCCCTGT
GGATGTAACCCCTTAGCTGGCATTTCATCTCAATTGGCTTGTGATGGAGGCGTCTTTG
GGGATTCAGATGGATGAGCCAATGGCTTTTTCTCCCAGCGTGACCGGTTTCAGGCTGAA
GGCTCTTTAAAAAAAACGAGCAGAATTTAAACTTGCAGGTGTTAAAAAAGATATTGAG
AAGCTTTATGAAGCTGTACCACAGCTTAGTAATGTGTTTAAAGATTGAGGACAAAATGGA
GAAGGCACCTTTCAGCTCTGTTTATTTGGCCACAGCACAGTTACAAGTAGGACCTGAAGAG
AAAATTGCTCTAAAACACTTGATTCCAACAAGTCATCCTATAAGAATTGCAGCTGAACCT
CAGTGCCTAACAGTGGCTGGGGGCAAGATAATGTCATGGGAGTTAAATACTGCTTTAGG
AAGAATGATCATGTAGTTATTGCTATGCCATATCTGGAGCATGAGTCGTTTTTGGACATT
CTGAATCTCTTTCTTTCAAGAAGTACGGGAATATATGCTTAATCTGTTCAAAGCTTTG
AAACGCATTTCATCAGTTTGGTATTGTTCCACCGTATGTTAAGCCCAGCAATTTTTATAT
AATANGCGCCTGAAAAGTATGCCTTGGTAGACTTTGGTTTGGCCCAAGGACCCATGATAC
GAAATAGAGCTTCTTAAATTTGTCAGTCTGAAGCTCAGCAGGAAAGGTGTCACAAAACAA
TCCCACATATCACAGGAACCAGATCCACTGAGTGCCC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_003503 unedited TTGGCCACGGAATGGCACTTCCAGNCCAGNAAAGCACTGGGGNAGGGTCACAGGGATGC CACCCGGGATCTGTTTCAGGAAACAGCTATGACCGCGGCCCAATCTAGAGTCGAGTTTTT TTTTTTTTTTTTTATAAAAGGATAAATTATTGAATATACAAATCAAGAGCATTCAATT TTTTTTAAGATTATGGCATAAGACAGATCAATGGTAATGGTTTATATATCTATACTTA CCAAACAGATTAGGTAGATATACTGACCTATCAATGCTCAAAATAACAAAATGAATACAT GTCCCTAAACTATTTCTGTATTCTATGACTACTAAATGGGAAATCTGTCAGCTGACCACC CACCAGACTTTTTCCCATAGGAAGTTTGATATGCTGTCATTGATATATACCATTTCTGAA TATAAACCTCTATCTTGGGTCCTTTTCTTTTGCCTACTTCAATTATCTGTCTTCCCAACC CACCTAAGACTTAGTCAAAACAGGATACAGAGATCTGGATGGCTCTACGCAGAGGAAAAA TCTCCAATAATACCGTCAATTCTGTATTCACTTTTCTTTTCAGCAGCTACCTAATTATAT CTAAGATGGTGTGAAAAAATATACAACCTCAAAAAAGAAAAGCATTGGACTATCAATCTT CACCTTGGTCTGCAGCTTCCCTTTATCAACCAGTGTATGTATTATTTAAATCCCAAC TGTAACACGTACAATATTTAATAAAACATCCAGAACTTTGTGGTCAGCACCATGTAAT TTCCGAGGAGAATGTTTTAGGTAGGGGCAGAGAAGGAAGAAATTGAGAACCAGTAAGAAA AAATGGCAATTCACCAGATGCTTCATGAAGTGTTTTTAAAAATGGATGATTTTCATTT
Restriction Sites:	NotI-NotI
ACCN:	NM_003503
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).
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_003503.2 , NP_003494.1
RefSeq Size:	3178 bp
RefSeq ORF:	1725 bp
Locus ID:	8317
UniProt ID:	O00311
Cytogenetics:	1p22.1
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase, Stem cell - Pluripotency

Protein Pathways: Cell cycle

Gene Summary: This gene encodes a cell division cycle protein with kinase activity that is critical for the G1/S transition. The yeast homolog is also essential for initiation of DNA replication as cell division occurs. Overexpression of this gene product may be associated with neoplastic transformation for some tumors. Multiple alternatively spliced transcript variants that encode the same protein have been detected. [provided by RefSeq, Aug 2008]
Transcript Variant: This variant (1) represents the most commonly occurring transcript. Variants 1, 2, and 3 all encode the same protein.