

## Product datasheet for **SC322498**

### CDC5L (NM\_001253) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CDC5L (NM_001253) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDC5L
Synonyms:	CDC5; CDC5-LIKE; CEF1; dj319D22.1; PCDC5RP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene sequence for SC322498
GCTTGGAGGAAGTGGCGGCTTTGAGTCCGGTGGCCAATCGCTGTTACTACTTCTCTGAA
GCTCCTCTCGGCTGCTTGGCCGAGACACCCTGCCGCAAGATGCCTCGAATTATGATCAAG
GGGGCGTATGGAGGAATACCGAGGATGAAATCTGAAAGCAGCGGTAATGAAATATGGG
AAAAATCAGTGGTCTAGGATTGCCTCATTGCTGCATAGAAAATCAGCAAAGCAGTGCAAA
GCCAGATGGTATGAATGGCTGGATCCAAGCATTAAAGAAGCAGAATGGTCCAGAGAAGAA
GAGGAAAAACTCTTGCACTTGGCCAAGTTGATGCCAACTCAGTGGAGGACCATTGGCTCCA
ATCATTGGAAGAACAGCGGCCAGTGCTTAGAACACTATGAATTTCTTCTGGATAAAGCT
GCCCAAAGAGACAATGAAGAGGAAACAACAGATGATCCACGAAAACCTTAAACCTGGAGAA
ATAGATCCAAATCCAGAAAACAAAACCAGCGCGCCTGATCCAATTGATATGGATGAGGAT
GAACCTTGAGATGCTTTCTGAAGCCAGAGCCCGCTTGGCTAATACTCAGGGAAAAGAAGCC
AAGAGGAAAGCAAGAGAGAAAACAATTGGAAGAAGCAAGACGTCTTGCTGCCCTCCAAAAA
AGAAGAGAACTTCGAGCAGCTGGCATAGAAATTCAGAAGAAAAGAAAAGGAAGAGAGGA
GTTGATTATAATGCCGAAATCCCATTTGAAAAAAGCCTGCCCTTGGTTTTATGATACT
TCTGAGGAAAACACCAAGCTCTTGACGCAGATTTAGGAAAATTAAGACAACAGGATCTT
GATGGGGAGCTAAGATCTGAAAAAGAAGGAAGAGATAGAAAAAAGACAAACAGCATTTG
AAAAGGAAAAAAGAACTGATTTACCATCAGCTATTCTTCAAACCTAGTGGTGTCTGAA
TTTACTAAAAAGAGAAGCAAACTAGTACTTCTGCCCTCAGATTTAGATGCAGAACTC
CAGGAAGTTGTAAGAGTAGGCAAGCGAGTGAAATTCACGTCAAAACCTGCCGAGGAATCT
GGCATAACAAATCTGCTTCCAGTACACTTTTGTCTGAGTACAATGTCACCAACAACAGC
GTTGCTCTTAGAACACCACGAACACCAGCTTCCAGGACAGAATTCTGCAGGAAGCCAG
AACCTCATGGCCCTCACCAATGTGGACACCCATTGAAAGGTGGACTTAATACCCCATG
CATGAGAGTGACTTCTCAGGTGTAACCTCACAGCGACAAGTTGTACAGACTCCAAACACA
GTTCTCTACTCCATTACGACTCCTTCTAATGGAGCTGAAGGGCTGACTCCCCGGAGT
GGAACAACTCCAAACCAGTTATTAACCTACTCCGGGTAGAACTCCTTTCGAGACAAG
TTAAACATTAATCCCGAGGATGGAATGGCAGACTATAGTATCCCTTACGTGAAGCAG
ATGGAAAGAGAATCCCGAGAACATCTCCGTTTAGGGTTTGGGCCTTCTGCCCTAAG
AATGATTTTGAATTTGTTCTACCAGAAAATGCCGAGAAGGAGCTGGAAGAAGCTGAAATA
GATGATACTTACATTGAAGATGCTGCTGATGTGGATGCTCGAAAGCAGGCCATACGAGAT
GCAGAGCGTGTAAAGGAAATGAAACGAATGCATAAAGCTGTCCAGAAAGATCTGCCAAGA
CCATCAGAAGTAAATGAACTATTCTAAGACCCTTAAATGTAGAACCCTTTAACAGAT
TTACAGAAAAAGTGAAGAACTAATCAAAAAAGAAATGATCACAAATGCTTATTATGACCTT
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AATAATTCAGAGCACATTACCTATCTGGAACATAATCCTTATGAAAAGTTCTCCAAAGAA
GAGCTGAAAAAGGCCAGGATGTTTTGGTGCAGGAGATGGAAGTGGTTAAACAAGGAATG
AGCCATGGAGAGCTCTCAAGTGAAGCTTATAACCAGGTGTGGGAAGAATGCTACAGTCAA
GTTTTATATCTTCTGGGCAGAGCCGTACACACGGGCCAATCTGGCTAGTAAAAAGGAC
AGAATTGAATCACTTGAAGAGGCTCGAGATAAACAGGGGTACATGACGACAGAAAGCC
AAGAGGGCTGCAAGATGGAAGAAGATGAAAATTTTCTTGGGGTTACCAGTCTCGT
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GAGTTACGCACTTTTGAAGAACTCAAGAAACATGAAGATTCTGCTATTCCCCGGAGGCTA
GAGTGTCTAAAAGAAGACGTTTACGCGACAACAAGAAAAGAGAAAAGGAACTTCAACATAGA
TATGCTGATTTGCTGCTGGAGAAAAGAGACTTTAAAGTCAAAATCTGAAGTACAGTTTAT
ATTCTGTCACAGGATTAATTAATTGCCGGTTTTACTACTTAGAAGGCTGAAACTGATGT
TTATCTTCATTGACAAATTTACCCACCCTCTGTGGTTTTTCAGTTGTTTTATTTAAATGA
TATCGATCTTACACATTTCTGTGTATAAAGACCTTAACTCCACAGGACGGACATTTTAGAG
TTTAAATTTAAAGGCTATCATTCTTTAGTAATGTCATATTTGCAAACCTTTTTAGTTT
TGGCCTTTAATTTAAAAAGCCTAATTTTAAAGTGTGCCTGTGAGTAACTCTTGAATAAA
AACAAAATATAAAAAAAAAAAAAAAAAA
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**Restriction Sites:**

Please inquire

<b>ACCN:</b>	NM_001253
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001253.2</a> , <a href="#">NP_001244.1</a>
<b>RefSeq Size:</b>	3012 bp
<b>RefSeq ORF:</b>	2409 bp
<b>Locus ID:</b>	988
<b>UniProt ID:</b>	<a href="#">Q99459</a>
<b>Cytogenetics:</b>	6p21.1
<b>Domains:</b>	myb_DNA-binding
<b>Protein Families:</b>	Transcription Factors
<b>Protein Pathways:</b>	Spliceosome

**Gene Summary:**

The protein encoded by this gene shares a significant similarity with *Schizosaccharomyces pombe* *cdc5* gene product, which is a cell cycle regulator important for G2/M transition. This protein has been demonstrated to act as a positive regulator of cell cycle G2/M progression. It was also found to be an essential component of a non-snRNA spliceosome, which contains at least five additional protein factors and is required for the second catalytic step of pre-mRNA splicing. [provided by RefSeq, Jul 2008]