

Product datasheet for **SC119335**

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC119335 sequence for NM_001253 edited (data generated by NextGen Sequencing)

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ATGCCTCGAATTATGATCAAGGGGGGCGTATGGAGGAATACCGAGGATGAAATTCTGAAA
GCAGCGGTAAATGAAATATGGGAAAAATCAGTGGTCTAGGATTGCCTCATTGCTGCATAGA
AAATCAGCAAAGCAGTGCAAAGCCAGATGGTATGAATGGCTGGATCCAAGCATTAAAGAAG
ACAGAAATGGTCCAGAGAAGAAGAGGAAAAACTCTTGCACTTGCCCAAGTTGATGCCAACT
CAGTGGAGGACCATTGCTCCAATCATTGGAAGAACAGCGGCCAGTGCTTAGAACACTAT
GAATTTCTTCTGGATAAAGCTGCCCAAAGAGACAATGAAGAGGAAACAACAGATGATCCA
CGAAAACTTAAACCTGGAGAAATAGATCCAATCCAGAAAACAAAACAGCGCGCCTGAT
CCAATTGATATGGATGAGGATGAACTTGAGATGCTTTCTGAAGCCAGAGCCCGCTTGCT
AATACTCAGGGAAAGAAGGCCAAGAGGAAAGCAAGAGAGAAACAATTGGAAGAAGCAAGA
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AAAAGAAAAGGAAGAGAGGAGTTGATTATAATGCCGAAATCCCATTTGAAAAAAGCCT
GCCCTTGGTTTTTATGATACTTCTGAGGAAAACACCAAGCTCTTGACGCAGATTTTCAGG
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AAAAAAGACAAACAGCATTGAAAAAGGAAAAAGAATCTGATTTACCATCAGCTATTCTT
CAAACAGTGGTGTCTGAATTTACTAAAAAGAGAAGCAAACACTAGTACTTCTGCCCTT
CAGATTTAGATGCAGAACTCCAGGAAGTTGTAAGTAGGCCAAGCGAGTGAAATTGCA
CGTCAAACGCGAGGAACTCGGCATAACAATTTCTGCTTCCAGTACACTTTTGTCTGAG
TACAATGTCACCAACAACAGCGTTGCTCTTAGAACACCACGAACACCAGCTTCCCAGGAC
AGAATTCGCAGGAAGCCAGAACCTCATGGCCCTCACCATGTGGACACCCCATTTGAAA
GGTGGACTTAATACCCCATTCATGATGAGAGTGACTTCTCAGGTGTAACCCACAGCGACAA
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GAAGGGCTGACTCCCGGAGTGGAAACAACCTCCCAAACCGTTATTAACCTACTCCGGGT
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GATCCCTCTTACGTGAAGCAGATGGAAAGAGAATCCCGAGAACATCTCCGTTTAGGGTTG
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GAGCTGGAAGAACGTGAAATAGATGATACTTACATTGAAGATGCTGCTGATGTGGATGCT
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AAAACGTAGGGTTTGGTACCAATAATTCAGAGCACATTACCTATCTGGAACATAATCCT
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TGGGAAGAATGCTACAGTCAAGTTTTATATCTTCTGGGCAGAGCCGCTACACACGGGCC
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CAAATTAACAGGCTCACTTGGAGTTACGCATTTTGAAGAACTCAAGAAACATGAAGAT
TCTGCTATTCCCGGAGGCTAGAGTGTCTAAAAGAAGACGTTACGCGACAACAAGAAAGA
GAAAAGGAACTTCAACATAGATATGCTGATTTGCTGCTGGAGAAAGAGACTTTAAAGTCA
AAATTCTGA
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Clone variation with respect to NM_001253.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001253 unedited
 TTGTAACACGACTTACTATAGGGCGGCCGCAATTCGGCACGAGGCTTGGAGGAAGTGGC
 GGCTTTGAGTCCGGTGGCCCAATCGCTGTTACTACTTCTCTGAAGCTCCTCTCGGCTGCT
 TGCCGAGACACCCTGCCGCAAGATGCCTCGAATTATGATCAAGGGGGCGTATGGAGGA
 ATACCGAGGATGAAATTTCTGAAAGCAGCGGTAATGAAATATGGGAAAAATCAGTGGTCTA
 GGATTGCCTCATTGCTGCATAGAAAAATCAGCAAAGCAGTGCAAAGCCAGATGGTATGAAT
 GGCTGGATCCAAGCATTAAAGAAGACAGAATGGTCCAGAGAAGAAGAGGAAAAACTTTGC
 ACTTGGCCAAGTTGATGCCAACTCAGTGGAGGACCATTGCTCCAATCATTGGAAGAACAG
 CGGCCAGTGCTTAGAACACTATGAATTTCTTCTGGATAAAGCTGCCCAAAGAGACAATG
 AAGAGGAAACAACAGATGATCCACGAAAACCTAAACCTGGAGAAATAGATCCAAATCCAG
 AAACAAAACCAGCGCGCCTGATCCAATTGATATGGATGAGGATGAACTTGAGATGCTTT
 CTGAAGCCAGAGCCGCTTGGCTAATACTCAGGGAAAGAAGGCCAAGAGGAAAGCAAGAG
 AGATAAATTGGAAGAAGCAAGACGTCTTGTGCCCTCCAAAAAGAAGAGAACTTCGAG
 CAGCTGGCATAGAAATTCAGAAGAAAAGANAAGGAAGAGAGGAGTTGATTTATATGCCG
 AAATCCATTTGAAAAAGCCTGCCCTTGGGTTTTATGATACTTCTGAGGAAACTACCAGC
 TCTTGACGCAGATTCAGGAAAATAGACACAGATCTTGATGGGGAGCTAGACTGAAN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001253 unedited
 TGACCGCGCCGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATATT
 TTGGTTTTATTCAAGAGTTACTCACAGGCAGCACTTTAAAATTAGGCTTTTTAAATAAA
 GGCCAAAATAAAAAAGTTTGCAAATATGACATTACTAAAAGAATGATAGCCTTAATAAT
 TAAACTCTAAAAATGTCCTGCTGTGGAGTTAAGGTCTTTATACACAGAATGTGTAAGAT
 CGATATCATTTAAAATAAACAACCTGAAAAACCACAGATGGGGGGTAAATTTGCAATGAA
 GATAAACATCAGTTTCAGCCTTCTAAAAGTATGAAAACCGCAATTAATTAATCCTGTGAC
 AGAATATAAACTGTACTTCAAAATTTGACTTTAAAGTCTTTTCTCCAGCAGCAAAATCA
 GCATATCTATGTTGAAGTTCTTTTCTTTTCTTTGTTGGCGCTGAACGTCTTCTTTTAGA
 CACTCTAGCCTCCGGGAATAGCAGAATCTTCATGTTTCTTGAGTTCTTCAAAAGTGCCT
 AACTCCAAGTGAGCCTGTTCAATTTGGTCCATAAGTCATTCAACTGTTTCATGAGCCCC
 ATAGCACGAGACTGGTAACCCCAAGCAAAATTTTCATCTTTTCCATCTTTGCAGCC
 CTCTTGGCTTCTGTGTCATGTGACCCCTGTTTATCTCGAGCCTCTTTTCAAGTGATTCA
 ATTCTGTCTTTTTACTAAGCAGATTGGCCCGTGTGTAGCGGCTCTGCCACGAAGATAA
 TAAACTTGACTGTAACTTCTTCCACACCTGGTTATAGCTTCACTTGAAAGACTCTCAT
 GGCTCATTCTTGGTTTAACTTCCATCTCTGCACCAANCATTCTGGGCCTTTTTCA
 ACTCTTTCTTGAAC

Restriction Sites:

NotI-NotI

ACCN:

NM_001253

Insert Size:

2940 bp

OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
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_001253.2 , NP_001244.1
RefSeq Size:	3012 bp
RefSeq ORF:	2409 bp
Locus ID:	988
UniProt ID:	Q99459
Cytogenetics:	6p21.1
Domains:	myb_DNA-binding
Protein Families:	Transcription Factors
Protein Pathways:	Spliceosome
Gene Summary:	<p>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]</p>