

Product datasheet for **SC122659**

CDC45L (CDC45) (NM_003504) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC45L (CDC45) (NM_003504) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDC45L
Synonyms:	CDC45L; CDC45L2; MGORS7; PORC-PI-1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_003504 edited
 CCTCGTCCGCCGGGCTCTTGGTACCTCAGCGCGAGCGCCAGGCGTCCGGCCGCCGTGGC
 TATGTTCTGTCCGATTTCCGCAAAGAGTTCTACGAGGTGGTCCAGAGCCAGAGGGTCT
 TCTCTTGTGGCCTCGGACGTGGATGCTCTGTGTGCGTGAAGATCCTTCAGGCCTTGT
 CCAGTGTGACCACGTGCAATATACGCTGGTCCAGTTTCTGGGTGGCAAGAACTGAAAC
 TGCATTTCTTGAGCATAAAGAACAGTTTCATTATTTTATTCTCATAAACTGTGGAGCTAA
 TGTAGACCTATTGGATATTTCTCAACCTGATGAAGACACTATATTTCTTTGTGTGACAC
 CCATAGGCCAGTCAATGTCGTCAATGTATACAACGATACCCAGATCAAATTACTCATTAA
 ACAAGATGATGACCTTGAAGTTCCCGCCTATGAAGACATCTTCAGGGATGAAGAGGAGGA
 TGAAGAGCATTACAGAAATGACAGTGTGGGTGAGAGCCTTCTGAGAAGCGCACACGGTT
 AGAAGAGGAGATAGTGGAGCAAACCATGCGGAGGAGGCAGCGCGAGAGTGGGAGCCCCG
 GAGAAGAGACATCCTCTTTGACTACGAGCAGTATGAATATCATGGGACATCGTCAGCCAT
 GGTGATGTTTGTGCTGGTGGATGCTGTCCAAGGACCTGAATGACATGCTGTGGTGGC
 CATCGTTGGACTAACAGACCAGTGGGTGCAAGACAAGATCACTCAAATGAAATACGTGAC
 TGATGTTGGTGTCTGCAGCGCCACGTTTCCCGCCACAACCACCGGAACGAGGATGAGGA
 GAACACACTCTCCGTGGACTGCACACGGATCTCCTTTGAGTATGACCTCCGCCTGGTGT
 CTACCAGCACTGGTCCCTCCATGACAGCCTGTGCAACACCAGCTATACCCGAGCCAGGT
 CAAGCTGTGGTCTGTGCATGGACAGAAGCGGCTCCAGGAGTTCCTTGACAGATGGGTCT
 TCCCCTGAAGCAGGTGAAGCAGAAGTTCAGGCCATGGACATCTCCTTGAAGGAGAATTT
 GCGGGAATGATTGAAGAGTCTGCAAATAAATTTGGGATGAAGGACATGCGCGTGCAGAC
 TTTTCAGCATTCAATTTGGGTTCAAGCACAAGTTTCTGGCCAGCGAGCTGGTCTTTGCCAC
 CATGCTTTGATGGAGAGCCCCGAGAAGGATGGCTCAGGGACAGATCACTTCATCCAGGC
 TCTGGACAGCCTCTCCAGGAGTAACCTGGACAAGCTGTACCATGGCCTGGAACCTGCCAA
 GAAGCAGCTGCGAGCCACCCAGCAGACCATGCCAGCTGCCTTTGACCAACCTCGTCAT
 CTCCCAGGGGCTTTCTGTACTGCTCTCTCATGGAGGGCACTCCAGATGTCATGCTGTT
 CTCTAGGCCGGCATCCCTAAGCCTGCTCAGCAAACACCTGCTCAAGTCTTTGTGTGTT
 GACAAAGAACCGGCGCTGCAAACCTGCTGCCCTGGTGTGGTGGCCCCCTGAGCATGGA
 GCATGGCACAGTGACCGTGGTGGGCATCCCCCAGAGACCGACAGCTCGGACAGGAAGAA
 CTTTTTTGGGAGGGCGTTTGAAGGCAGCGGAAAGCACCAGCTCCCGGATGCTGCACAA
 CCATTTTGACCTCTCAGTAATTGAGCTGAAAGCTGAGGATCGGAGCAAGTTTCTGGACGC
 ACTTATTTCCCTCTGTCTAGGAATTTGATTCTCCAGAAATGACCTTCTATTTATGTA
 ACTGGCTTTCATTTAGATTGTAAGTTATGGACATGATTTGAGATGTAGAAGCCATTTTTT
 ATTAATAAAATGCTTATTTTAGGCTCAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_003504 unedited
 NAGATGTTTCAAGTTTGTNATACGACTCATATAGGCGGCACGCGAATTCGCACGAGGCT
 CGTGCCCGGGCTCTTGGTACCTCAGCGCGAGCGCCAGGCGTCCGGCCCGTGGCTAT
 GTTCGTGTCGATTTCCGCAAAGAGTTCTACGAGGTGGTCCAGAGCCAGAGGGTCTTCT
 CTTCTGTGGCCTCGGACGTGGATGCTCTGTGTGCGTGAAGATCCTTCAGGCCTTGTCCA
 GTGTGACCACGTGCAATATACGCTGGTCCAGTTTCTGGGTGGCAAGAACTTGAACCTGC
 ATTTCTTGAGCATAAAGAACAGTTTCATTATTTTATTCTCATAAACTGTGGAGCTAATGT
 AGACCTATTGGATATTCTTCAACCTGATGAAGACACTATATTCTTTGTGTGTGACACCCA
 TAGGCCAGTCAATGTCGTCAATGTATACAACGATACCCAGATCAAATTACTCATTAAACA
 AGATGATGACCTTGAAGTCCCGCCTATGAAGACATCTTCAGGGATGAAGAGGAGGATGA
 AGAGCATTCAAGACATGACAGTGTGGGTGAGAGCCTTCTGAGAAGCGCACACGGTTAGA
 AGAGGAGATAGTGGAGCAAACCTTGGCGAGGAAGCATCGGCGAGAGTGGGAAGCCCGGAG
 AAGAACTTCTCTTACTACGAGCAGTGTGATTATCAGGGGACATCGTCGGCCATGGTGA
 TGTGTTGACCTGGCTTGGTTGCCTGTCCAAGACCTGAATGACAGGCTGTGGTGGGCCCTC
 GGGGGACTAACGAACAATGAGGTGCCAGACAAGATCCCCCGATGGAAATCCGGGCCGGATG
 TTGGGGTCCGGCACGCGCCCGTGTCCGCGTAACCCCGGAACGG

Restriction Sites: Please inquire

ACCN:	NM_003504
Insert Size:	1914 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_003504.3 , NP_003495.1
RefSeq Size:	1938 bp
RefSeq ORF:	1701 bp
Locus ID:	8318
UniProt ID:	O75419
Cytogenetics:	22q11.21
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	Cell cycle
Gene Summary:	<p>The protein encoded by this gene was identified by its strong similarity with <i>Saccharomyces cerevisiae</i> Cdc45, an essential protein required to the initiation of DNA replication. Cdc45 is a member of the highly conserved multiprotein complex including Cdc6/Cdc18, the minichromosome maintenance proteins (MCMs) and DNA polymerase, which is important for early steps of DNA replication in eukaryotes. This protein has been shown to interact with MCM7 and DNA polymerase alpha. Studies of the similar gene in <i>Xenopus</i> suggested that this protein play a pivotal role in the loading of DNA polymerase alpha onto chromatin. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]</p> <p>Transcript Variant: This variant (2) lacks an in-frame exon in the CDS, as compared to variant 1. The resulting isoform (2) is shorter than isoform 1.</p>