

Product datasheet for **SC328963**

CDC45L (CDC45) (NM_001178010) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC45L (CDC45) (NM_001178010) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDC45L
Synonyms:	CDC45L; CDC45L2; MGORS7; PORC-PI-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC328963 representing NM_001178010.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGTTTCGTGTCCGATTTCCGCAAAGAGTTCTACGAGGTGGTCCAGAGCCAGAGGGTCTTCTCTTCGTG
GCCTCGGACGTGGATGCTGTGTGCGTCAAGATCCTTCAGGCCTTGTCCAGTGTGACCACGTGCAA
TATACGCTGGTCCAGTTTCTGGGTGGCAAGAACTTGAACTGCATTTCTTGAGCATAAAGAACAGTTT
CATTATTTTATTCTATAAACTGTGGAGCTAATGTAGACCTATTGGATATTCTTCAACCTGATGAAGAC
ACTATATTCTTTGTGTGACACCCATAGGCCAGTCAATGTCGTCAATGTATAACAACGATACCCAGATC
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GAGGATGAAGAGCATTACGAAATGACAGTGTGGGTGAGAGCCTTCTGAGAAGCGCACAGGTTAGAA
GAGGAGATAGTGGAGCAAACCATGCGGAGGAGGCAGCGGAGAGTGGGAGGCCCGGAGTGGCTCTGGG
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GCCCAAGGTCTCCAGAAGAGACATCCTCTTTGACTACGAGCAGTATGAATATCATGGGACATCGTCA
GCCATGGTGTATTTGAGCTGGCTTGGATGCTGTCCAAGGACCTGAATGACATGCTGTGGTGGGCCATC
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AGCATGGAGCATGGCACAGTACCGTGGTGGGCATCCCCCAGAGACCGACAGCTCGGACAGGAAGAAC
TTTTTTGGGAGGGCGTTTGAAGGCAGCGGAAAGCACCAGCTCCCGGATGCTGCACAACCATTTTGCAC
CTCTCAGTAATTGAGCTGAAAGCTGAGGATCGGAGCAAGTTTCTGGACGCACTTATTTCCCTCTGTCC
TAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001178010

Insert Size: 1797 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).

OTI Annotation: 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.

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_001178010.2
RefSeq Size:	2094 bp
RefSeq ORF:	1797 bp
Locus ID:	8318
UniProt ID:	O75419
Cytogenetics:	22q11.21
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	Cell cycle
MW:	68.8 kDa
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 (1) encodes the longest isoform (1).</p>