

Product datasheet for **SC124636**

CDCA4 (NM_145701) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDCA4 (NM_145701) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDCA4
Synonyms:	HEPP; SEI-3/HEPP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC124636 sequence for NM_145701 edited (data generated by NextGen Sequencing)

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ATGTTTGCACGAGGACTGAAGAGGAAATGTGTTGGCCACGAGGAAGACGTGGAGGGAGCC
CTGGCCGGCTTGAAGACAGTGTCTCATACAGCCTGCAGCGGCAGTCGCTCCTGGACATG
TCTCTGGTGAAGTTGCAGCTTTGCCACATGCTTGTGGAGCCCAACCTGTGCCGCTCAGTC
CTCATTGCCAACACGGTCCGGCAGATCCAAGAGGAGATGACGCAGGATGGGACGTGGCGC
ACAGTGGCACCCAGGCTGCAGAGCGGGCGCCGCTCGACCGCTTGGTCTCCACGGAGATC
CTGTGCCGTGCAGCGTGGGGCAAGAGGGGGCACATCCTGCTCCTGGCTTGGGGACGGC
CACACACAGGGTCCAGTTTCTGACCTTTGCCAGTCACCTCAGCACAGGCCACCAAGGCAC
CTGCAGAGCAGCGCTGGGAGATGGATGGCCCTCGAGAAAACAGAGGAAGCTTTCACAAG
TCACTTGATCAGATATTTGAAACGCTGGAGACTAAAAACCCAGCTGCATGGAAGAGCTG
TTCTCAGACGTGGACAGCCCTACTACGACCTGGACACAGTACTGACAGGCATGATGGGG
GGTGCCAGGCCGGGCCCTGCGAAGGGCTCGAGGGCTTGGCTCCGGCCACCCCGGGCCCT
AGCTCCAGCTGCAAGTCCGACCTGGGCGAGCTGGACCACGTGGTGGAGATCCTGGTGGAG
ACCTGA

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Clone variation with respect to NM_145701.2
654 a=>g



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_145701 unedited TTCCCCGCCCGTTGNCGCAAAGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCA GAGCTCATTTAGCTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCGA ATTCGGCACGAGGCGGCAGCGCGGTGGCGGTGGCTGAGCAGAGGACCCGGCGGGCGGCC TCGCGGTTCAGGACACAATGTTTGCACGAGGACTGAAGAGGAAATGTGTTGGCCACGAGG AAGACGTGGAGGGAGCCCTGGCCGGCTTGAAGACAGTGCCTCATACAGCCTGCAGCGGC AGTCGCTCCTGGACATGTCTCTGGTGAAGTTGCAGCTTTGCCACATGCTTGTGGAGCCCA ACCTGTGCCGCTCAGTCCTCATTGCCAACACGGTCCGGCAGATCCAAGAGGAGATGACGC AGGATGGGACGTGGCGCACAGTGGCACCCAGGCTGCAGAGCGGGCGCCGCTCGACCGCT TGGTCTCCACGGAGATCCTGTGCCGTGCAGCGTGGGGGAAGAGGGGGCACATCCTGCTC CTGGCTTGGGGACGGCCACACAGGGTCCAGTTTCTGACCTTTGCCAGTCACCTCAG CACAGGCACCAAGGCACCTGCAGAGCAGCGCTGNGAGATGGATGGCCCTCGAGAAACAG AGGAAGCTNTACAAGTCACTTGATCAGATATTTGAAACGCTGGAGACTAAAAACCCAG CTGCATGGAAGAGCTGTTCTCAGACGTGGACAGCCCTACTACGACCTGGACACAGTACT GACAGGCATGATGGNGGGTGCCAGGCCGGCCCTGCGAAGGNCTCGAGGGCTTGGCTC CCGCCACCCGGGCCCTACTCAGCTGCAGNTCGACTGGCGACTGACCCGTGNNTGATATCC TGTGAGACTGACAGGCCTGATGTACAGCGCTTGAGCTTGCAGTACCTGCTCCACGAG TGCC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_145701 unedited ATACTAGTGTACGCGGCCCTCNANGATCGAGTTTTTTTTTTTTTTTTTTTTTTTGTGGTGG ATAATTTTTTAAATAAAGTGAGGTTTACATCACTGATATTTAAGAATGGCTATATGCACAA AAGAAAACACACCTTTTTGGTTAAGGGGTGAGGAAGTTAGAGAAAGCATGAGAAACAGGG AGCATGTGGGGTGAAGCGGGCAGGAGTGAAGGCTGCAGGCACCCAGCTCACTCCCT GCCTGCGGCAGCACCCATGACACTACAGATCAAGGGTTATGAATGACATGGATTAGAT TTCTTTTATTCTAGACTTCAACCTAGCCTTAACTTTTGTTCAGCACCACTAACAGA GCAGCGCAGGCGTTTCTCATCCAGCAGCAATGCTACTTCTCACCAGGGCAGGTGCATG GGCTGACCCTGACGGGAGCCTCCAGAACACTGCCTTGAGAAGGCACCACCGAGGGGCTAT GAGGTCCCTGAAGACCACTGGTGCCTGTGATCTACAAACAGACAAAATTTGACCTTTG TCTTCAATGACATTTACATATAAATAGACATAAATAAAATCCTCCATAATTTACTCTTAA GGACATANTGAAGAAGTTTCACACACACATTTTAAAGTAAACATGATACATTCACACTGG TGAAGTGAAGTGTAGTGTGCTCACTGCNNAACAAACAAACANAAACCCCTATTTAA CCTTAAAAAATGAAACACACCACTGGCATTGGTTAAGCTATAAAAGTTCTAATGTTGC AGCAAAGGATGTTATAGAAAAAATACTTTTTAGAAAAATAGCTGAAAAAATCTAAGA GATAAGGTTA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_145701
Insert Size:	2000 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:

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_145701.1](#), [NP_663747.1](#)

RefSeq Size: 1645 bp

RefSeq ORF: 726 bp

Locus ID: 55038

UniProt ID: [Q9BXL8](#)

Cytogenetics: 14q32.33

Protein Families: ES Cell Differentiation/IPS

Gene Summary: This gene encodes a protein that belongs to the E2F family of transcription factors. This protein regulates E2F-dependent transcriptional activation and cell proliferation, mainly through the E2F/retinoblastoma protein pathway. It also functions in the regulation of JUN oncogene expression. This protein shows distinctive nuclear-mitotic apparatus distribution, it is involved in spindle organization from prometaphase, and may also play a role as a midzone factor involved in chromosome segregation or cytokinesis. Two alternatively spliced transcript variants encoding the same protein have been noted for this gene. Two pseudogenes have also been identified on chromosome 1. [provided by RefSeq, May 2014] Transcript Variant: This variant (2) lacks a segment in the 3' UTR compared to variant 1. Both variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The extent of this transcript is supported by transcript alignments.