

Product datasheet for RC203983

CDCA4 (NM_145701) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: CDCA4 (NM_145701) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: CDCA4

Synonyms: HEPP; SEI-3/HEPP

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC203983 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

 ${\tt TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC}$

GCCGCGATCGCC

ATGTTTGCACGAGGACTGAAGAGGAAATGTGTTGGCCACGAGGAAGACGTGGAGGAGCCCTGGCCGGCT
TGAAGACAGTGTCCTCATACAGCCTGCAGCGGCAGTCGCTCCTGGACATGTCTCTGGTGAAGTTGCAGCT
TTGCCACATGCTTGTGGAGCCCAATCTGTGCCGCTCAGTCCTCATTGCCAACACGGTCCGGCAGATCCAA
GAGGAGATGACGCAGGATGGGACGTGGCGCACAGTGGCACCCCCAGGCTGCAGAGCGGGCGCCGCTCGACC
GCTTGGTCTCCACGGAGATCCTGTGCCGTGCAGCGTGGGGGCAAGAGGGGGCACATCCTGCTCCTGGCTT
GGGGGACGGCCACACACACAGGGTCCAGTTTCTGACCTTTGCCCAGTCACCTCAGCACAGGCACCAAGGCAC
CTGCAGAGCAGCGCCTGGGAGATGGATGGCCCTCGAGAAAACAGAGGAAGCTTTCACAAGTCACTTGATC
AGATATTTGAAACGCTGGAGACTAAAAACCCCAGCTGCATGGAAGAGCTGTTCTCAGACGTGGACAGCCC
CTACTACGACCTGGACACAGTACTGACAGGCATGATGGGGGGTGCCAGGCCGGGCCCCTGCGAAGGGCTC
GAGGGCTTGGCTCCGGCCACCCCAGGCCCTAGCTCCAGCTGCAAGTCCGACCTGGACCACC
TGGTGGAGATCCTGGTGGAGACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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CDCA4 (NM_145701) Human Tagged ORF Clone - RC203983

Protein Sequence: >RC203983 protein sequence

Red=Cloning site Green=Tags(s)

MFARGLKRKCVGHEEDVEGALAGLKTVSSYSLQRQSLLDMSLVKLQLCHMLVEPNLCRSVLIANTVRQIQ EEMTQDGTWRTVAPQAAERAPLDRLVSTEILCRAAWGQEGAHPAPGLGDGHTQGPVSDLCPVTSAQAPRH LQSSAWEMDGPRENRGSFHKSLDQIFETLETKNPSCMEELFSDVDSPYYDLDTVLTGMMGGARPGPCEGL

EGLAPATPGPSSSCKSDLGELDHVVEILVET

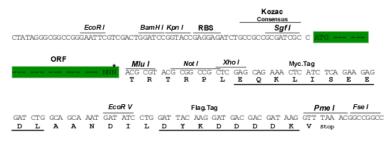
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6422 c05.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_145701

ORF Size: 723 bp

OTI Disclaimer: 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

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

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).

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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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>NM 145701.1</u>, <u>NP 663747.1</u>

RefSeq Size: 1927 bp

 RefSeq ORF:
 726 bp

 Locus ID:
 55038

 UniProt ID:
 Q9BXL8

 Cytogenetics:
 14q32.33

Protein Families: ES Cell Differentiation/IPS

MW: 26.1 kDa

Gene Summary: This gene encodes a protein that belongs to the E2F family of transcription factors. This

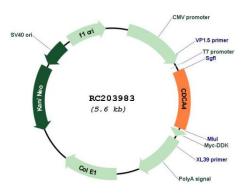
protein regulates E2F-dependent transcriptional activation and cell proliferation, mainly through the E2F/retinoblastoma protein pathway. It also functions in the regulation of JUN oncogene expression. This protein shows distinctive nuclear-mitotic apparatus distribution, it is involved in spindle organization 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

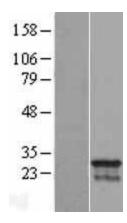
pseudogenes have also been identified on chromosome 1. [provided by RefSeq, May 2014]



Product images:



Circular map for RC203983



Western blot validation of overexpression lysate (Cat# [LY407902]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203983 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).