

## Product datasheet for **RG203983**

### CDCA4 (NM\_145701) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CDCA4 (NM_145701) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CDCA4
Synonyms:	HEPP; SEI-3/HEPP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203983 representing NM_145701 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTTGCACGAGGACTGAAGAGGAAATGTGTTGGCCACGAGGAAGACGTGGAGGGAGCCCTGGCCGGCT  
TGAAGACAGTGTCTCATACAGCCTGCAGCGGCAGTCGCTCTGGACATGTCTCTGGTGAAGTTGCAGCT  
TTGCCACATGCTTGTGGAGCCCAATCTGTGCCGCTCAGTCCTATTGCCAACACGGTCCGGCAGATCCAA  
GAGGAGATGACGCAGGATGGGACGTGGCGCACAGTGGCACCCAGGCTGCAGAGCGGGCGCCGCTCGACC  
GCTTGGTCTCCACGGAGATCCTGTGCCGTGCAGCGTGGGGCAAGAGGGGCACATCCTGCTCCTGGCTT  
GGGGACGGCCACACACAGGGTCCAGTTTCTGACCTTTGCCAGTCACCTCAGCACAGGCCACCAAGGCAC  
CTGCAGAGCAGCGCCTGGGAGATGGATGGCCCTCGAGAAAACAGAGGAAGCTTTCACAAGTCACTTGATC  
AGATATTTGAAACGCTGGAGACTAAAAACCCAGCTGCATGGAAGAGCTGTTCTCAGACGTGGACAGCCC  
CTACTACGACCTGGACACAGTACTGACAGGCATGATGGGGGTGCCAGGCCGGGCCCTGCCAAGGGCTC  
GAGGGCTTGGCTCCGGCCACCCAGGCCCTAGCTCCAGCTGCAAGTCCGACCTGGGCGAGCTGGACCAGC  
TGGTGGAGATCCTGGTGGAGACC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG203983 representing NM\_145701  
 Red=Cloning site Green=Tags(s)

MFARGLKRKCVGHEEDVEGALAGLKTVSSYSLRQSQLLDMSLVKLQLCHMLVEPNLCRSVLIANTVRQIQ  
 EEMTQDGTWRTVAPQAAERAPLDRLVSTEILCRAAWQGEAHPAPGLGDGHTQGPVSDLCPVTSAQAPRH  
 LQSSAWEMDGPRENRSFHKSLDQIFETLETKNPSCMEELFSDVDSPYYDLDTVL TGMGGARPGPCEGL  
 EGLAPATPGPSSSCKSDLGELDHVVEILVET

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**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).

**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

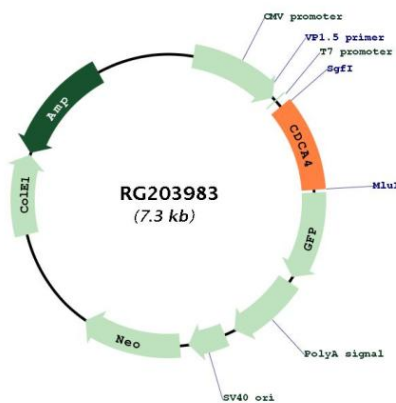
**UniProt ID:** [Q9BXL8](#)

**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]

**Product images:**



Circular map for RG203983