

Product datasheet for **RG200821**

CDCA3 (NM_031299) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDCA3 (NM_031299) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CDCA3
Synonyms:	GRCC8; TOME-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200821 representing NM_031299 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCTCAGCCAAGAGCGTCCCAGTCACACCAGCGGGCTCCGCCGACAACAAGCATCTGGCTCGAG
TGGCGGACCCCGTTACCTAGTGCTGGCATCCTGCGCACTCCCATCCAGGTGGAGAGCTCTCCACAGCC
AGGCCTACCAGCAGGGGAGCAACTGGAGGGTCTTAAACATGCCCAGGACTCAGATCCCCGCTCTCTACT
CTTGGTATTGCACGGACACCTATGAAGACCAGCAGTGGAGACCCCAAGCCCACTGGTGAACAGCTGA
GTGAAGTATTTGAACTGAAGACTCTAAATCAAATCTTCCCCAGAGCCTGTTCTGCCCCAGAGGCACC
TTTATCTTCTGAATTGGACTTGCCTCTGGGTACCCAGTTATCTGTTGAGGAACAGATGCCACCTTGGAAC
CAGACTGAGTTCCCTCCAACAGGTGTTTTCCAAGGAGGAAGCAAGACAGCCCACAGAAACCCCTGTGG
CCAGCCAGAGCTCCGACAAGCCCTCAAGGGACCCTGAGACTCCCAGATCTTCAGGTTCTATGCGCAATAG
ATGGAAACCAACAGCAGCAAGGTAAGGAGATCCCCCTCACCATCCTGCAGGATGACAACCTCCCT
GGCACCCTGACACTACGACAGGGTAAGCGGCCTTACCCCTAAGTAAAAATGTTAGTGAACAAAGGAAG
GAGCCATTCTTGGAACTGGACGACTTCTGAAAACCTGGAGGACGAGCATGGGAGCAAGGCCAGGACCATGA
CAAGGAAAATCAGCACTTCCCTTGGTGGAGAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200821 representing NM_031299
 Red=Cloning site Green=Tags(s)

MGSAKSVPVTPARPPPHNKLARVADPRSPSAGILRTPIQVESSPQPGLPAGEQLEGLKHAQSDPRSPT
 LGIARTPMKTSSGDPPSPLVKQLSEVFETEDSKSNLPPEPVLPEAPLSSELDLPLGTQLSVEEQMPPWN
 QTEFPSKQVFSKEEARQPTETPVASQSSDKPSRDPETPRSSGSMRNRWKPNSKVLGRSPLTILQDDNSP
 GTLTLRQGKRPSLSENVSELKEGAILGTGRLLKTGGRAWEQGDHDKENQHFLVES

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031299

ORF Size: 804 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_031299.7](#)

RefSeq Size: 1139 bp

RefSeq ORF: 807 bp

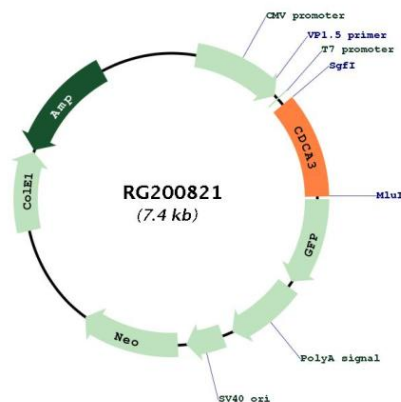
Locus ID: 83461

UniProt ID: [Q99618](#)

Cytogenetics: 12p13.31

Gene Summary: F-box-like protein which is required for entry into mitosis. Acts by participating in E3 ligase complexes that mediate the ubiquitination and degradation of WEE1 kinase at G2/M phase (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG200821