

Product datasheet for **RG201385**

CDCA8 (NM_018101) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDCA8 (NM_018101) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CDCA8
Synonyms:	BOR; BOREALIN; DasraB; MESRGP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201385 representing NM_018101 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCCTAGGAAGGGCAGTAGTCGGGTGGCCAAGACCAACTCCTTACGGAGGCGGAAGCTCGCCTCCT
TTCTGAAAGACTTCGACCGTGAAGTGAAATACGAATCAAGCAAATTGAGTCAGACAGGCAGAACCTCCT
CAAGGAGGTGGATAACCTCTACAACATCGAGATCCTGCGGCTCCCAAGGCTCTGCGCGAGATGAACTGG
CTTGACTACTTCGCCCTTGGAGGAAACAACAGGCCCTGGAAGAGGCGGCAACAGCTGACCTGGATATCA
CCGAAATAAACAACTAACAGCAGAAGCTATTCAGACACCCTGAAATCTGCCAAAACAGAAAGGTAAT
ACAGGTAGATGAAATGATAGTGAAGAGGAAGAAGAAGAAAATGAACGTAAGAATCTTCAAAGTGA
AGAGTCAAAGGTGTCCTCCATCCAAGAAGAGAACTCAGTCCATACAAGGAAAAGGAAAAGGTAAGGT
CAAGCCGTGCTAACACTGTTACCCAGCCGTGGGCCGATTGGAGGTGTCCATGGTCAAACCAACTCCAGG
CCTGACACCCAGGTTTACTCAAGGGTCTTCAAGACCCCTGGCCTGCGTACTCCAGCAGCAGGAGAGCGG
ATTTACAACATCTCAGGGAATGGCAGCCCTCTTGCTGACAGCAAAGAGATCTTCTCACTGTGCCAGTGG
GCGGCGGAGAGCCTGCGATTATTGGCCAGTGACTTGCAGAGGCACAGTATTGCCAGCTGGATCCAGA
GGCCTTGGGAAACATTAAGAAGCTCTCCAACCGTCTCGCCAAATCTGCAGCAGCATACGGACCCACAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201385 representing NM_018101
 Red=Cloning site Green=Tags(s)

MAPRKSSRVAKTNSLRRRKLASFLKDFDREVEIRIKQIESDRQNLKKEVDNLYNIEILRLPKALREMNW
 LDYFALGGNKQALEEAATADLDITEINKLTAEAIQTPLKSAKTRKVIQVDEMIVEEEEEENERKNLQTA
 RVKRCPPSKKRTQSIQKGKGRSSRANTVTPAVGRLEVSMVKPTPGLTPRFDSRVFKTPGLRTPAAGER
 IYNISGNGSPLADSKEIFLTPVGGESLRLASDLQRHSIAQLDPEALGNIKKLSNRLAQICSSIRTHK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018101

ORF Size: 840 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_018101.4](#)

RefSeq Size: 2319 bp

RefSeq ORF: 843 bp

Locus ID: 55143

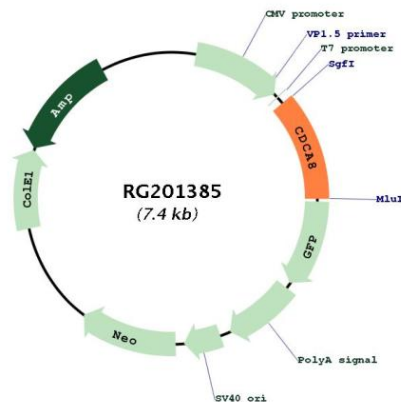
UniProt ID: [Q53HL2](#)

Cytogenetics: 1p34.3

Protein Families: Druggable Genome

Gene Summary: This gene encodes a component of the chromosomal passenger complex. This complex is an essential regulator of mitosis and cell division. This protein is cell-cycle regulated and is required for chromatin-induced microtubule stabilization and spindle formation. Alternate splicing results in multiple transcript variants. Pseudogenes of this gene are found on chromosomes 7, 8 and 16. [provided by RefSeq, Apr 2013]

Product images:



Circular map for RG201385