

## Product datasheet for **RG233628**

### CDCA8 (NM\_001256875) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CDCA8 (NM_001256875) 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:	>RG233628 representing NM_001256875 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCCTAGGAAGGGCAGTAGTCGGGTGGCCAAGACCAACTCCTTACGGAGGCGGAAGCTCGCCTCCT  
TTCTGAAAGACTTCGACCGTGAAGTGAAATACGAATCAAGCAAATTGAGTCAGACAGGCAGAACCTCCT  
CAAGGAGGTGGATAACCTCTACAACATCGAGATCCTGCGGCTCCCAAGGCTCTGCGCGAGATGAAGTGG  
CTTGACTACTTCGCCCTTGGAGGAAACAACAGGCCCTGGAAGAGGCGGCAACAGCTGACCTGGATATCA  
CCGAAATAACAACTAACAGCAGAAGCTATTCAGACACCCTGAAATCTGCCAAAACAGAAAGGTAAT  
ACAGGTAGATGAAATGATAGTGAAGAGGAAGAAGAAGAAAATGAACGTAAGAATCTTCAAAGTGA  
AGAGTCAAAGGTGTCCTCCATCCAAGAAGAGAACTCAGTCCATACAAGGAAAAGGAAAAGGAAAAGGT  
CAAGCCGTGCTAACACTGTTACCCAGCCGTGGGCCGATTGGAGGTGTCCATGGTCAAACCAACTCCAGG  
CCTGACACCCAGGTTTACTCAAGGGTCTTCAAGACCCCTGGCCTGCGTACTCCAGCAGCAGGAGAGCGG  
ATTTACAACATCTCAGGGAATGGCAGCCCTCTTGCTGACAGCAAAGAGATCTTCTCACTGTGCCAGTGG  
GCGGCGGAGAGCCTGCGATTATTGGCCAGTGACTTGCAGAGGCACAGTATTGCCAGCTGGATCCAGA  
GGCCTTGGGAAACATTAAGAAGCTCTCCAACCGTCTCGCCAAATCTGCAGCAGCATACGGACCCACAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG233628 representing NM\_001256875  
 Red=Cloning site Green=Tags(s)

MAPRKSSRVAKTNSLRRLKASFLKDFDREVEIRIKQIESDRQNLLKEVDNLYNIEILRLPKALREMNW  
 LDYFALGGNKQALEEAATADLDITEINKLTAEAIQTPLKSAKTRKVIQVDEMIVEEEEEENERKNLQTA  
 RVKRCPPSKKRTQSIQGGKGGKRSSRANTVTPAVGRLEVSMVKPTPGLTPRFDSRVFKTPGLRTPAAGER  
 IYNISGNGSPLADSKEIFLTPVGGESLRLASDLQRHSIAQLDPEALGNIKKLSNRLAQICSSIRTHK

TRTRPLE - GFP Tag - V

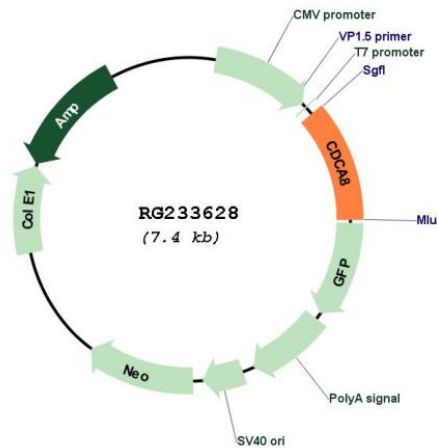
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_001256875

**ORF Size:** 840 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001256875.2</a>
<b>RefSeq Size:</b>	2502 bp
<b>RefSeq ORF:</b>	843 bp
<b>Locus ID:</b>	55143
<b>UniProt ID:</b>	<a href="#">Q53HL2</a>
<b>Cytogenetics:</b>	1p34.3
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	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]