

## Product datasheet for **MG223484**

### **Cdca8 (NM\_026560) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cdca8 (NM_026560) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cdca8
Synonyms:	4831429J16Rik; AU044747; BOR; Borealin; D4Ertd421e; DasraB; MESRGP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG223484 representing NM_026560 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCCCAAGAAACGCAGCAGCCGCGGAACCAGGACCAACACGCTGCGGAGCCGGAAGCTCGCCTCCT  
TCCTGAAGGACTTCGACCGCGAGGTGCAAGTTCGAACCAAGCAAATTGAGTCCGACAGACAGACCCTCCT  
CAAGGAGGTGAAAATCTGTACAACATCGAGATCCTTCGGCTCCCAAGGCGCTGCAAGGGTGAAGTGG  
CTTGACTACTTCGCCCTAGGAGGAAACAAGCAGGCCCTGGAAGAGGCAGCAAAGCTGATCGAGACATCA  
CAGAAATAACAATTTAACAGCTGAAGCTATTCAGACACCTTTGAAATCTGTTAAAAAGCGAAAGGTAAT  
CGAGGTGGAGGAATCGATAAAGGAAGAAGAAGAAGAGGAAGAAGAAGGAGGAGGAGGAGGAAGAACA  
AAAAAGAGCCATAAGAATCTTCGATCTGCAAAAAGTCAAAAAGATGCCTTCCATCCAAGAAGAGAACCAGT  
CCATACAAGGAAGAGGCAGAAGTAAAAGGTTAAGCCATGACTTTGTGACGCCAGCTATGAGCAGGCTGGA  
GCCGTCTCTGGTAAAACCAACCCAGGCATGACACCTAGGTTTACTCCCGGGTCTTCAAGACTCCAGGG  
CTACGCACTCCAGCAGCCAAAGCAAGTTTACAACATCTCCATCAACGGCAGCCCTCTCGCAGACAGCA  
AAGAGATCTCCCTCAGTGTGCCATAGGTGGCGGTGCGAGCTTGGGTTATTGGCCAGTGACTTGCAAAG  
GATTGATATTGCTCAGCTGAATCCAGAGGCTCTGGGAAACATTAGAAAGCTCTCGAGCCGCTCGCCAG  
ATCTGCAGCAGCATACGGACGGCCGA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG223484 representing NM\_026560  
 Red=Cloning site Green=Tags(s)

MAPKKRSSRGTRTNTLRSRKLASFLKDFDREVQVRTKQIESDRQTLLKEVENLYNIEILRLPKALQGMKW  
 LDYFALGGNKQALEEAAKADRDITEINNLTAEAIQTPLKSVKKRVIEVEESIKEEEEEEGGGGGRT  
 KKSHKNLRSKVKRCLPSKKRTQSIQGRGRSKRLSHDFVTPAMSRLEPSLVKPTPGMTPRFDSRVFKTPG  
 LRTPAAKEQVYINISINGSPLADSKIEISLSVPIGGGASLRLLASDLQRIDIAQLNPEALGNIRKLSRRLAQ  
 ICSSIRTGR

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_026560

**ORF Size:** 867 bp

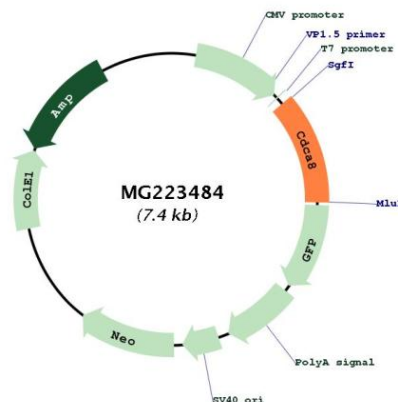
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

<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_026560.4</a> , <a href="#">NP_080836.3</a>
<b>RefSeq Size:</b>	1626 bp
<b>RefSeq ORF:</b>	870 bp
<b>Locus ID:</b>	52276
<b>UniProt ID:</b>	<a href="#">Q8BHX3</a>
<b>Cytogenetics:</b>	4 57.93 cM
<b>Gene Summary:</b>	Component of the chromosomal passenger complex (CPC), a complex that acts as a key regulator of mitosis. The CPC complex has essential functions at the centromere in ensuring correct chromosome alignment and segregation and is required for chromatin-induced microtubule stabilization and spindle assembly. In the complex, it may be required to direct the CPC to centromeric DNA. Major effector of the TTK kinase in the control of attachment-error-correction and chromosome alignment (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG223484