

## Product datasheet for **MG201279**

### **Cdca8 (BC068181) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cdca8 (BC068181) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Cdca8  
**Synonyms:** MESRGP, BOR  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG201279 representing BC068181  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCCCAAGAAACGCAGCAGCCGCGGAACCAGGACCAACACGCTGCGGAGCCGGAAGCTCGCCTCCT  
TCCTGAAGGACTTCGACCGCGAGGTGCAAGTTCGAACCAAGCAAATTGAGTCCGACAGACAGACCCTCCT  
CAAGGAGGTGAAAATCTGTACAACATCGAGATCCTTCGGCTCCCAAGGCGCTGCAAGGGATGAAGTGG  
CTTGACTACTTCGCCCTAGGAGGAAACAAGCAGGCCCTGGAAGAGGCAGCAAAAGCTGATCGAGACATCA  
CAGAAATAACAATTTAACAGCTGAAGCTATTCAGACACCTTTGAAATCTGTTAAAAAGCGAAAGGTAAT  
CGAGGTGGAGGAATCGATAAAGGAAGAAGAACAACAAAAAGAGCCATAAGAATCTTCGATCTGCAAAAG  
TCAAAAGATGCCTTCCATCCAAGAAGAGAACCCAGTCCATACAAGGAAGAGGCAGAAGTAAAGGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG201279 representing BC068181  
 Red=Cloning site Green=Tags(s)

MAPKKRSSRGTRTNTLRSRKLASFLKDFDREVQVRTKQIESDRQTLLKEVENLYNIEILRLPKALQGMKW  
LDYFALGGNKQALEEAAKADRDITEINNLTAETAIQTPLKSVKKRKRKVEVEESIKEEEEEQKRAIRIFDLQK  
SKDAFHPRREPSPYKEEAQVKG

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI

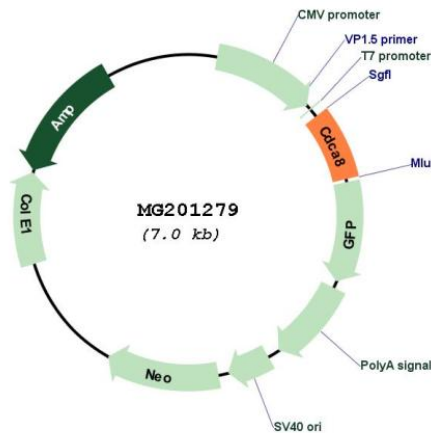


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**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** BC068181

**ORF Size:** 488 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.

<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>	<u>BC068181</u> , <u>AAH68181</u>
<b>RefSeq Size:</b>	1572 bp
<b>RefSeq ORF:</b>	488 bp
<b>Locus ID:</b>	52276
<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]