

## Product datasheet for **MC222957**

### **Cdca2 (NM\_001110162) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cdca2 (NM\_001110162) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Cdca2  
**Synonyms:** 2610311M19Rik; AI586158  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >MC222957 representing NM\_001110162  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGATGCGAGTTCACACGACAAGCCTCTCTGAATCCAAGGAGTGTGCCTTAATAATTCTGAAAATG  
 ACGTTTTTAGATTGGAACTGAACCGTTTGTGACTCCTCAGAAGCATGTAGCAGATGCGACTCCTAATCT  
 TTGCACCCCTGATACCTTAAGTCACCTTTGGACTTCACCACAGTAACCGTAGAGCAGTTGGGAATTACA  
 CCTGAAAGCTTTGTTAAGACCTTCCGAAAGTCAACATCTCCCTTCAGAAGGCCAGGCGCCGCTCCA  
 CTGTTGGTGTGCGGGCTCTCCAGAAACCAATTGCCTGATCCGATTCATTGCCAGCAGCAAACCTAAA  
 GAAGGCTGTGCTCTCCGTTGGCAGAGAGCCCACTTCGAGGGTAGCCCAAGACTGTATCGAAATGCC  
 AGTGTTTAAGAGAGCGAATGTCTGCTTTTCGGTCAGCTTTTCACTCCATACAGGAACTAAGATGGCCA  
 GCAGTCCCTCAGCAGCAGAGGCAGAGAGTCTAGGATATCAGATTTGACCAGAAAAGAAGATCTTCT  
 TGAATATCAGCAGTCTGGGTTCCCTGTAACCTCTTCAAAGCGGAGGAGAATATCCTCCCAGGACAGC  
 CCTGACAATTATCTCAGTGGCACCAAAGCCCTTGTGACGAAGCGTGTGCTGGGGTGCCTCCACAGATC  
 TTGCTGAGAAATCACCTGACATCGGTTCCGCCCAGCCGGATGCATGGCTGCTCCCTCCAGAGCTCAG  
 GGAGACTTCCCAGGACTTGCAGTACTGACTGTGTAGAGGCCCTGTAACACCCTGAGCTCAGGCACA  
 GCCACTGCCACCAAGTCTCCAGAGACTCCTATGTGCGGGAGCAGCCCTCCGCTAAGACCACCGCCA  
 CCAGGTCTCCAGGACTCCTGTATGTGGAAGCAGCACCCCTCCGCTAAGACCTTTGTGCTTCGTTCTGT  
 GTTGAAGAAACCTGGTAAGCTGTTCTCAGAGAATGAAAGGAATCCAACCTCTGTGATGACGGGGTTCAT  
 CTGATCTCATATCCTTCAAACCTTGAAGGAAGGAGAGAGGAGAGAGAAAAGTAAAACACCAGGCT  
 GTCTGAATCCGAGGAAGAGGAAGAGAGTACTTTTGGAGAGGACTTAAGCCCTGAAGTGTGTTGATGAGTC  
 TTTACCAGCCAATACTCCATTGTGCAAAGGAGGAACACCTGTTCCGCCAAGGACCGTAAAACTACCAGT  
 CCCCTGCAGTCCCCGTTTCATGAGCAGTTTCTCAGCCAACTTTGATGACAAGGAGGAGAACCTTGAAA  
 ACATAGAGCCACCTCAGGATCATTGCAAATCTGAGTCTTAGTAAATCCTCACTCTGAGACTCCTCC  
 AGGCACTAACACTGCAGTCTTTAAATAAAGATGAAGAAATAATCTGCAGTATTGTTAGACCTACACGG



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ACCTCTCAAAGAAGAAAGCAGACGCTGAGTTCTACAGGTGTTTGCAGCTCATATACTACACAAGCTGAGC
CCCGTAAAGAGAAGATGAGCAGGAGGAAATCTCGAGAAAAAAGCACACAAGCGCGCACTTCTAAAAA
GAAACAGGTTTTAAAAAGTTACAGAAAAAAGAAAAAGGGAAAAAAGATGTTGAAAAATGCTTTTATGGG
CCAAGAGACATTGCATCGAAGAAGCCACTCCTGAGCCCTATTCTGAGCTGCCTGAAGTCTCTGAAGCGA
CTCCTCTGGCTGACTGCACGCAGGGGACGAGCTCAGATGATTTCAACAAATGTGGTCAGCTGGAAGAAGT
GAACTCGTTTGAATCCACACAACGGAAGAGACGCTTACCACAGAAGGCAGATTCGCCTGAGCTGGAC
CCAGTCTCATCAGTCTCAGGTCTCTGACAAGTGTCTACCTGTTGCCTCTCACTACTGCTTCTGAGC
GAGGGCCAAATGCCAGTACCAGAGACACAGGCAGTGAAGGGAACACCAGAGCGGAGAGTAAGTGTCAAAG
TGCAAAGGAGCCAAAACCCGGGACCAAGATGGAAAGCGGTCTTGTGCCTCGGGCTTCTGTGACCCAAAGT
CACATCGTGTCCAAGAATCCAAAACCTCTGGGCAGCCCTCAGAGCCAGGACCTTTTCAAGGCTGGTCAAA
ATTTGGAAAAATCCTTGTGAGATCCTTATTGTTTCAGAAAGTATGAATCTAAAGTGTGAGAAAAGAGAGTGA
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TCAGAAGATGTCCTATTCAAAATATAAAAGAACCCGCAAGCCACAGTGAGAATGTGGGAAGGAAATGTG
CAGGGAATGGCAGCCCTGGCAGTGGGAGAGAGAGGAAATGGAGAAGACGCACAGTGTGTTGTGGGGTCA
GAGTTCATACCTGGAACAAAATGGGAACCTGCGTCTTCTGAGTGGGAAAACCTTTGTGAAATTAGT
TTAGAAAGCGTGCAGCTGATTGAAGAGCTGTCTAACACCATAGAGCAAAGCTTTCAGAGAACAAGCAGTA
AAACCAAGGTGAGACGCAGCACAAGGCTCCAGAGAGACTTGAAAAATACAGGGCTTGTGTGGCTGTCTCC
AAGTCTTCCACTTTCAGAAAGCCAGAAAGGAGAATGACGATCTGCACCTTAGACAGCAGGGGATTTGAA
TGTCCATCCTCCAAGAAGAGACCATACTCAGGACAAAACCCAGGGCCGCTGCCCGCTGTCTCGGGCA
GTGAGAGCCAGGGTGTGGTTCTTCTGCGCTACCTAGGAAGAGGAGAAGCCTTTGTGGGTCTACCCTCAC
AGATGCTAACAGTGCCACCCAGCCACCAGACTGCAAGAGAAAACCTCGCTCAAGGGAGAAAAGCGCTCAG
CTGCCCTGA
    
```

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_001110162
- Insert Size:** 2949 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_001110162.1](#), [NP\\_001103632.1](#)
- RefSeq Size:** 3865 bp
- RefSeq ORF:** 2949 bp

**Locus ID:** 108912

**UniProt ID:** [Q14B71](#)

**Cytogenetics:** 14 D1

**Gene Summary:** Regulator of chromosome structure during mitosis required for condensin-depleted chromosomes to retain their compact architecture through anaphase. Acts by mediating the recruitment of phosphatase PP1-gamma subunit (PPP1CC) to chromatin at anaphase and into the following interphase. At anaphase onset, its association with chromatin targets a pool of PPP1CC to dephosphorylate substrates (By similarity).[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) is the longer transcript.