

Product datasheet for MR217306

Cdca2 (NM_001110162) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdca2 (NM_001110162) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdca2
Synonyms:	2610311M19Rik; AI586158
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217306 representing NM_001110162 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGATCGCC

ATGGATGCGAGTTCACACGACAAGCCTCTCTGAATCCAAGGAGTGTGCCTTAATAATTCTGAAAATG
ACGTTTTTAGATTGGAACTGAACCGTTTGTGACTCCTCAGAAGCATGTAGCAGATGCGACTCCTAATCT
TTGCACCCCTGATACCTTAAGTCACCTTTGGACTTCACCACAGTAACCGTAGAGCAGTTGGGAATTACA
CCTGAAAGCTTTGTTAAGACCTTCCGAAAAGTCAACATCTCCCTTCAGAAGGCCAGGCGCCGCTCCA
CTGTTGGTGTGCGGGCTCTCCAGAAACCAATTGCCTGATCCGATTCATTGCCAGCAGCAAACCTAAA
GAAGGCTGTGCTCTCCGTTGGCAGAGACCCCACTTCGAGGGTAGCCCAAGACTGTATCGAAATGCC
AGTGTTTAAGAGAGCGAATGTCTGCTTTTCGGTCAGCTTTTCACTCCATACAGGAACTAAGATGGCCA
GCAGTCCCTCAGCAGCAGAGGCAGACGGAGAGTCTAGGATATCAGATTTGACCAGAAAAGAAGATCTTCT
TGAATATCAGCAGTCTGGGTTCCCTGTAACCTCTTCAAAGCGGAGGAGAATATCCTCCCAGGACAGC
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TTGCTGAGAAATCACCTGACATCGGTTCCGCCCAGCCGGATGCATGGCTGCTCCCTCCAGAGCTCAG
GGAGACTTCCCAGGACTTGCAGTACTGACTGTGTAGAGGGCCCTGTAAACCACTGAGCTCAGGCACA
GCCACTGCCACCAAGTCTCCAGAGACTCCTATGTGCGGGAGCAGACCCCTCCGCTAAGACCACCGCCA
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ACATAGAGCCACCTCAGGATCATTGCAATCTGAGTCTTAGTAAATCCTCACTCTGAGACTCCTCC
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ACCTCTCAAAGAAGAAAGCAGACGCTGAGTTCTACAGGTGTTTGACGCTCATATACTACACAAGCTGAGC
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 GAAACAGGTTTTAAAAAGTTACAGAAAAAAGAAAAAGGGGAAAAAAGATGTTGAAAAATGCTTTTATGGG
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 CTGCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR217306 representing NM_001110162
 Red=Cloning site Green=Tags(s)

MDASSHDKPLSESKECVLNSENDFVRLGTEPFVTPQKHVADATPNLCTPDTFKSPDLFTTVTVEQLGIT
 PESFVKTSSTSSGKSTSSLQARRRSTVGVVRSPEINCLIRFIAQQRNLKAVLSPLAREPHFEGSPRLYRNA
 SVLRERMSAFRSFHSIQETKMASSPSAAEADGESRISDLTRKEDLLEYQQSGFPVNSSKRRRISQDS
 PDNYLSGTKALADEACAGGASTDLAEKSPDIGSAQPGCMAAPLPELRETSQGLAVTDCVEGPVTPPLSSGT
 ATATRSPETPMCGSSSSSAKTTATRSPATPVCGSSTPSAKTFVLRVSLKPKGLFSENGESNLCDGGAH
 LISYPSNSCKEGRAGRENCKTPGCLNPRKRKRVTFGEDLSPEVFDESLPANTPLCKGGTPVRPRTVKTTT
 PLQSPVHEQFLQPNFDDKEENLENI EPPQGSFANLSLSKSSLSETPPGTNTCSSLNKDEEIIICSVRPTR
 TSQRRKQTLSSGTVCSSYTTQAEPRKEKMSRRKSREKKHTSAALPKKKQVLKSYRKKKKGKKDVEKCFYG
 PRDIASKKPLLSPPELPEVSEATPLADCTQGTSSDDFNKCGQLEEVNSFEIPTQRKRRLPQKADSPELD
 PAHHQSQVSDKCCYLLPLTTASERGNASTRDTGSEGNTRAESKQSAKEPKPGTKMESGLVPRASVTQD
 HIVSKNPKPLGSPQSQDLFKAGQNLNCPCEILIVSESMNLKCEKESECLAPQGSQSPVSTDSKRDLC
 SEDVLIQNIKEPASHSENVGRKCAAGNSPGSGRERKWRRTVCCGGQSSYLEQNGNPASSCSGENFVEIS
 LESVQLIEELSNTIEQSFQRTSSKTKVRRSTRLQRDLENTGLVWVSPSPSTLQKPRRRMTICTLDSRGE
 CPSSKEETISSGQNPGLPAVSGSESQGVGSSALPRKRRSLCGSTLTDANSATQPPDCKRKP SLKGESAL
 LP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001110162

ORF Size: 2946 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_001110162.1](#), [NP_001103632.1](#)

RefSeq Size: 3865 bp

RefSeq ORF: 2949 bp

Locus ID: 108912

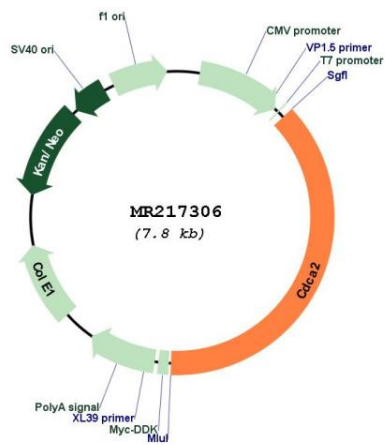
UniProt ID: Q14B71

Cytogenetics: 14 D1

MW: 106.4 kDa

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]

Product images:



Circular map for MR217306