

Product datasheet for MR203497

Cdca5 (NM_026410) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdca5 (NM_026410) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdca5
Synonyms:	2610036L13Rik; AL024086; AW536684; C85404
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203497 representing NM_026410 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGAGCGGCGAACACGATCAGGAGGGGCTGCCAGCGGTCTGGGCCAGGACTTCACTTACTAAGC
CTTCGAAGTCGTCCAAGCGGAAATCTGGCTCAGATCTCCCGAAGTCTTCTGAAATCTGGCCGAGGAC
AACTCCAGCGGTCCAGTCAGAAAGGCCATCGTCTTGAAGAAGATCGTAGCTCATGCAGTAGAGGTCCCA
GATGTCCACACGGTTCGAAGAAGTCTTAGGATCTCTTTATTTGGAAAAAGAGAACAACCTCCGCTCA
AGGTACCCACGAAAGAAGACCTTCAAGACTTGTAGTGTCCCTGGTACTCCCTCCAGCACCCCGTGCT
GTACACTCAGAAATGTTGAGCCTGACTCTGGAGAAGCAGAGCTGGACAGCAGAGACCTGGAAATGTCTCAG
AAAGTCAGGCGGTTCGTACAGTCGGCTACAGAGCCTTGGTTGTGCCTCAACCTCCACCCCTGGCCGCGAT
CCTTCTTTGGCTTTGAGGGACCTGACGACTTGCCTGGAGTCTCACCTGTCGTGTGTTCAAAGTTAATCGA
GACCCCAAAGGTACCTGCAAAGGACTTGGTTCCGGCTAGAACGAAGGACTTGGTTCCAGATAGTACGAAG
GACTTGGTTCCGGCTAGAACGCTCCCTGGAATCTCTCCCCAGTTGTGAAAGAGAAACGAAAGAAGAGG
TTCCTGAAATCCTGAAATCAGAGCTGGATAAGTGGGCTGTGGCCATGAATGCTGAATTTGAAGCTGCCGA
GCAGTTTGAGCTTCTGATTGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203497 representing NM_026410
Red=Cloning site Green=Tags(s)

MAERRTRSGGAAQRSGPRTSLTKPSKSSKRKSGSDLPSNFSEIWPRTTPAVPVRKAIVLKKIVAHAVEVP
 DVHTVRRSPRISFILEKENNPPLKVPTKEDLFKTCVSPGTPSSTPVLTYQNVEPDSGEALDSRDLEMSQ
 KVRRSYSRLQSLGCASTSTPGRRSFFGFEGPDDLPGVSPVVCSKLIETPKVPAKDLVPARTKDLVPDSTK
 DLVPARTLPGISPPVVKEKRKKVPEILKSELDKWAVAMNAEFEEAEQFELLIE

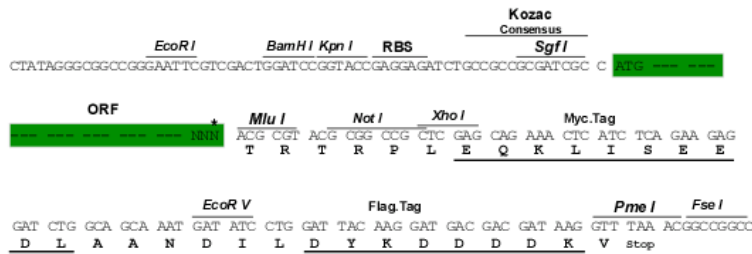
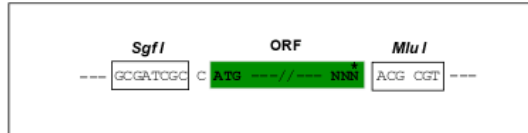
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9042_g01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_026410

ORF Size: 792 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_026410.3](#), [NP_080686.1](#)

RefSeq Size: 1906 bp

RefSeq ORF: 795 bp

Locus ID: 67849

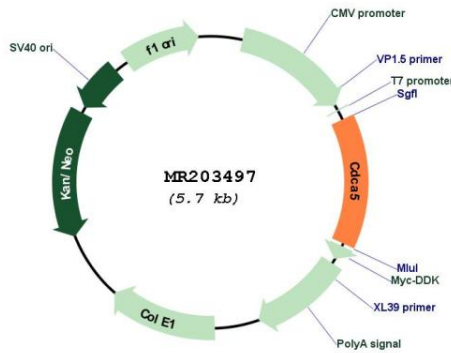
UniProt ID: [Q9CPY3](#)

Cytogenetics: 19 A

MW: 29.4 kDa

Gene Summary: Regulator of sister chromatid cohesion in mitosis stabilizing cohesin complex association with chromatin. May antagonize the action of WAPL which stimulates cohesin dissociation from chromatin. Cohesion ensures that chromosome partitioning is accurate in both meiotic and mitotic cells and plays an important role in DNA repair. Required for efficient DNA double-stranded break repair.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203497