

Product datasheet for **RC203624**

CDCA5 (NM_080668) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDCA5 (NM_080668) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CDCA5
Synonyms:	SORORIN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203624 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGGGAGGCGAACGCGTCCGGAGGAGCCGCTCAGCGCTCCGGGCCAAGGGCCCCATCTCCTACTA
AGCCTCTGCGGAGGTCCCAGCGGAAATCAGGCTCTGAACCCCGAGCATCCTCCCTGAAATCTGGCCGAA
GACACCCAGTGC GGCTGCAGTCAGAAAGCCCATCGTCTTAAAGAGGATCGTGGCCCATGCTGTAGAGGTC
CCAGCTGTCCAATCACCTCGCAGGAGCCCTAGGATTTCTTTTTCTTGGAGAAAGAAAACGAGCCCCCTG
GCAGGGAGCTTACTAAGGAGGACCTTTTCAAGACACACAGCGTCCCTGCCACCCACCAGCACTCCTGT
GCCGAACCCTGAGGCCGAGTCCAGCTCCAAGGAAGGAGAGCTGGACGCCAGAGACTTGAAATGTCTAAG
AAAGTCAGGCGTTCCTACAGCCGGCTGGAGACCCTGGGCTCTGCCTCTACCTCCACCCAGGCCCGCGGT
CCTGCTTTGGCTTCGAGGGGCTGCTGGGGCAGAAGACTTGTCCGGAGTCTCGCCAGTGGTGTGCTCCAA
ACTCACCGAGGTCCCAGGGTTTGTGCAAAGCCCTGGGCCCCAGACATGACTCTCCCTGGAATCTCCCCA
CCACCCGAGAAACAGAAACGTAAGAAGAAGAAAATGCCAGAGATCTTGAAAACGGAGCTGGATGAGTGGG
CTGCGGCCATGAATGCCGAGTTGAAGCTGCTGAGCAGTTTGATCTCCTGGTTGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203624 protein sequence
Red=Cloning site Green=Tags(s)

MSGRRTSRSGAAQRSGPRAPSPTKPLRRSQKSGSELP SILPEIWPKTPSAAAVRKPIVLKRIVAHAVEV
 PAVQSPRRSPRISFFLEKENEPGRELTKEDLFKTHSVPATPTSTPVNPEAESSEKELDARDLEMSK
 KVRRSYSRLETLSASTSTPGRRSFCGFEGLLGAEDLSGVSPVCSKLTVPVRCAPKWAPDMLPGISP
 PPEKQKRKKKKMPEILKTELDEWAAAMNAEFEEAEQFDLLVE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6424_a10.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_080668

ORF Size: 756 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_080668.4](#)

RefSeq Size: 2599 bp

RefSeq ORF: 759 bp

Locus ID: 113130

UniProt ID: [Q96FF9](#)

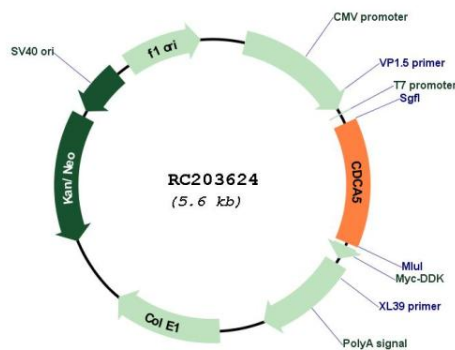
Cytogenetics: 11q13.1

Protein Families: Druggable Genome

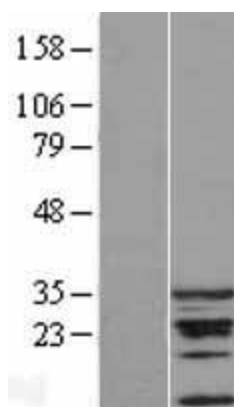
MW: 27.6 kDa

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 RC203624



Western blot validation of overexpression lysate (Cat# [LY409053]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203624 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).