

Product datasheet for **MR223843**

Cdc14a (NM_001080818) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdc14a (NM_001080818) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdc14a
Synonyms:	A830059A17Rik; Cdc14; CDC14a1; CDC14A2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR223843 representing NM_001080818
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGCGGAGTCTGGGAACTAATCGGGCTTGCAGTTCATGAAAGATCGATTATATTTTGCTACTT
 TAAGGAATAGACCAAAAAGCACAATAAATATCCACTATTTCTCCATCGACGAGGAGCTGGTCTATGAAAA
 TTTCTATGCAGATTTTGGACCTCTGAACCTGGCAATGGGTACAGATACTGCTGTAAGCTAAACAAGAAA
 CTAANAATCATAAGTTTCAAGAAAGAAGATAGTGCCTACACCTCTTTCGACCAGCGAAAAGAGCAA
 ACGCAGCATTCTGATAGGTGCTTATGCCGTCTACTTAAAGAAGACACCAGAAGAAGCGTACAGAGC
 TCTCTGTCTGGCTCAAACCTCCTTATCTTCCATTACAGGATGCATCTTTTGGAACTGCCTTACAAC
 CTCACCGTCTTGACTGTTTACAAGGAATCAGAAAGGATTACAGCATGGGTTTTTTGACTTTGAGACGT
 TTGATGCGGAAGAATATGAACATTATGAGCGAGTTGAAAACGGAGACTTCAACTGGATCGTTCAGGAAA
 GTTTTTAGCGTTCAGTGGACCGCATCTAAAAGCAAGATTGAGAATGGTTACCCTCTCCAGCTCCCGAA
 GCCTACTTTCCATACTTCAAAAAGAACAACGTGACCACGATCGTGAGATTGAACAAAAGATCTACGAGG
 CGAAGCGCTTACAGACGCTGGCTTCGAGCACTATGACCTGTTCTTCATAGACGGCAGCACCCCCAGCGA
 TAACATCGTGGGAGATTCTGAACATCTGTGAGAACACCGAGGGGGCCATCGCGGTCCACTGCAAAGCT
 GGTCTGGGAAGAACCGGGACATTGATAGCCTGTTATGTGCATGAAACACTACAGGTTTACACATGCTGAAA
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 ACAAGCATCATTGTGGGTCCAAGGAGACATTTTATAGATCCAACTAAAAATAGACCATCCAGTGAAGGA
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 ATGAAAGGACACCAAGGCAATGGCCAGACTTTCAGATTAAGTTCTCACCGCAACCAACTATGTCGA
 CCATGAAGACCTCCAAGTGTGTTGTCCCTTCACTGACAGCAAAAAAATAAGCCGAGGTTCTTTGTC
 TTCAGGAGCAATATAAGAAGCTTCTCCATAAATCCCGCTAGCCAGTCTCTAGGGAACCTGAACGCC
 GGGACAGAAGAACCTGAGACCAAGAAGACCACATCACTACCAAGGCCGCTTTCATAGCCAGCCATTCA
 CCAGCTTCTTGAATGGCAGCACCCAGACACCTGGCAGAACTACCCTGAGCTCAACAACAACAGTACAC
 CAGAAGCAGCAACAGCAACAGCAGCAGCAGCAGCAGCGGTCTTGGGGCAACCTGAACAGCTCTCCAGTC
 CCCAGAGCGCAAGCCGAGGAGCACACCACCATCCTTCGACCTCCTTCCCGGGTCACTCTCTTCTCT
 CCTCAGTGAATCCTGAGCCGTTCTATACCTTCCCTCAGTCTGAATACGTTTATTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR223843 representing NM_001080818
 Red=Cloning site Green=Tags(s)

MAAESGELIGACEFMKDRLYFATLRNRPKSTINIHYFSIDEELVYENFYADFPLNLMVYRYCCKLNKK
 LKSYSLSRKKIVHYTSFDQRKRANAFLIGAYAVIYLKKTPEEAYRALLSGSNPPYLPFRDASFGNCTYN
 LTVLDCLQGIRKGLQHGFDFEFTDAEEYEHYERVENGFNWI VPGKFLAFSGPHPKSKIENGYPLHAPE
 AYFPYFKNNVTTIVRLNKKIYEAKRFTDAGFEHYDLFFIDGSTPSDNIVRRFLNICENTEGAIIVHCKA
 GLGRTGLIACYVMKHYRFTAEIIAWIRICRPGSIIGPQQHFLKEKQASLWVQGDIFRSKLNRPSSSEG
 SITKIIISTLDDMSIGANLSKLQSTERIGENNFEDMEIKNNVTQGDKL RALKSQRHPRSSPSCAFRSDD
 MKGHQRAMAQTFRLSSSPQTMSTMKTSKVCLSPSVTAKKISRGLSSGANIRSFINSRLASSLGNLNA
 GTEEPETKKTSLTAAFIASPFSTFLNGSTQTPGRNYPELNQYTRSSNSNSSSSSSSGLGGLNLSPPV
 PQSAKPEEHTTILRPSFPGSLSSSVRFLSRSIPSLQSEYVHY

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

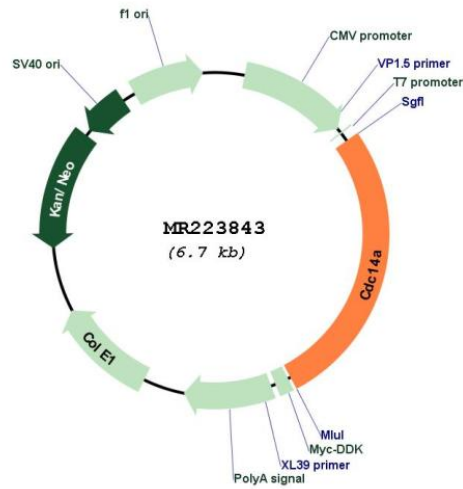
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001080818

ORF Size: 1809 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:	<ol style="list-style-type: none"> 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_001080818.2 , NP_001074287.1
RefSeq Size:	4511 bp
RefSeq ORF:	1812 bp
Locus ID:	229776
UniProt ID:	Q6GQT0
Cytogenetics:	3 G1
MW:	68.1 kDa
Gene Summary:	Dual-specificity phosphatase. Required for centrosome separation and productive cytokinesis during cell division. Dephosphorylates SIRT2 around early anaphase. May dephosphorylate the APC subunit FZR1/CDH1, thereby promoting APC-FZR1 dependent degradation of mitotic cyclins and subsequent exit from mitosis (By similarity). Required for normal hearing (PubMed:29293958).[UniProtKB/Swiss-Prot Function]