

Product datasheet for **MG223843**

Cdc14a (NM_001080818) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdc14a (NM_001080818) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cdc14a
Synonyms:	A830059A17Rik; Cdc14; CDC14a1; CDC14A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG223843 representing NM_001080818
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAGCGGAGTCTGGGAACTAATCGGGCTTGCAGTTCATGAAAGATCGATTATATTTTGCTACTT
 TAAGGAATAGACCAAAAAGCACAATAAATATCCACTATTTCTCCATCGACGAGGAGCTGGTCTATGAAAA
 TTTCTATGCAGATTTTGGACCTCTGAACCTGGCAATGGGTACAGATACTGCTGTAAGCTAAACAAGAAA
 CTAATAATCATACAGTTTCAAGAAAGAAGATAGTGCCTACACCTCTTTCGACCAGCGGAAAAGAGCAA
 ACGCAGCATTCTGATAGGTGCTTATGCCGTCTACTTAAAGAAGACACCAGAAGAAGCGTACAGAGC
 TCTCTGTCTGGCTCAAACCTCCTTATCTTCCATTAGGGATGCATCTTTTGGAACTGCCTTACAAC
 CTCACCGTCTTGACTGTTTACAAGGAATCAGAAAGGATTACAGCATGGGTTTTTTGACTTTGAGACGT
 TTGATGCGGAAGAATATGAACATTATGAGCGAGTTGAAAACGGAGACTTCAACTGGATCGTTCAGGAAA
 GTTTTTAGCGTTCAGTGGACCGCATCTAAAAGCAAGATTGAGAATGGTTACCCTCTCCAGCTCCCGAA
 GCCTACTTTCCATACTTCAAAAAGAACAACGTGACCACGATCGTGAGATTGAACAAAAAGATCTACGAGG
 CGAAGCGCTTACAGACGCTGGCTTCGAGCACTATGACCTGTTCTTCATAGACGGCAGCACCCCCAGCGA
 TAACATCGTGGGAGATTCTGAACATCTGTGAGAACACCGAGGGGGCCATCGCGGTCCACTGCAAAGCT
 GGTCTGGGAAGAACCGGGACATTGATAGCCTGTTATGTCATGAAACACTACAGGTTTACACATGCTGAAA
 TCATTGCTTGGATCAGAAATTTGCCGACCAAGGCTCCATCATCGGACCCAGCAGCACTTCTGAAAGAAA
 ACAAGCATCATTGTGGGTCCAAGGAGACATTTTATAGATCCAACTAAAAATAGACCATCCAGTGAAGGA
 AGTATTACAAAAATTTTACCCTGGATGATATGCTATTGGTGCAAATTTATCCAAATACAAAGCA
 CAGAAAGGATTGGAGAGAATAATTTTGAAGACGAAGATATGAAATTAAGAACAACGTAACGCAGGGAGA
 CAAACTACGTGCCTTAAAAAGCCAGAGGCATCCCGCTCCTCGCCATCCTGTGCATTTAGGTCAGATGAT
 ATGAAAGGACACCAAGGCAATGGCCAGACTTTCAGATTAAGTTCTCACCGCAACCAACTATGTCGA
 CCATGAAGACCTCAAAGTGTGTTGTCCCTTCACTGACAGCAAAAAAATAAGCCGAGGTTCTTTGTC
 TTCAGGAGCAAATAAGAAGCTTCTCCATAAATCCCGCTAGCCAGTCTCTAGGGAACCTGAACGCC
 GGGACAGAAGAACCTGAGACCAAGAAGACCACATCACTACCAAGGCCGCTTTCATAGCCAGCCATTCA
 CCAGCTTCTTGAATGGCAGCACCCAGACACCTGGCAGAACTACCCTGAGCTCAACAACAACAGTACAC
 CAGAAGCAGCAACAGCAACAGCAGCAGCAGCAGCAGCGGTCTTGGGGCAACCTGAACAGCTCTCCAGTC
 CCCAGAGCGCAAGCCGAGGAGCACACCACCATCCTTCGACCTCCTTCCCGGGTCACTCTCTTCTCT
 CCTCAGTGAGATTCTGAGCCGTTCTATACCTTCCCTTCACTCTGAATACGTTTCATTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG223843 representing NM_001080818
 Red=Cloning site Green=Tags(s)

MAESGELIGACEFMKDRLYFATLRNRPKSTINIHYFSIDEELVYENFYADFGLNLMVYRYCCKLNKK
 LKSYSLSRKKIVHYTSFDQRKRANAFLIGAYAVIYLKKTPEEAYRALLSGSNPPYLPFRDASFNCTYN
 LTVLDCLQGIRKGLQHGFDFETFDAEEYEHYERVENGFNWIWPGKFLAFSGPHPKSKIENGYPLHAPE
 AYFPYFKNNVTTIVRLNKKIYEAKRFTDAGFEHYDLFFIDGSTPSDNIVRRFLNICENTEGAIIVHCKA
 GLGRTGLTIACYVMKHYRFTAEIIAWIRICRPGSIIGPQQHFLKEKQASLWVQGDIFRSKLNRPSSSEG
 SITKIIISTLDDMSIGANLSKLQSTERIGENNFEDMEIKNNVTQGDKLRLKSRHPRSSPSCAFRSDD
 MKGHQRAMAQTFRLSSSPQPTMSTMKTSKVCLSPSVTAKKISRGSLSSGANIRSFINSRLASSLGNLNA
 GTEEPETKKTSLTAAFIASPFSTFLNGSTQTPGRNYPELNNNQYTRSSNSNSSSSSSSGLGNLNSSPV
 PQSAKPEEHTTILRPSFPGSLSSSVRFLSRSIPSLQSEYVHY

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


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:

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

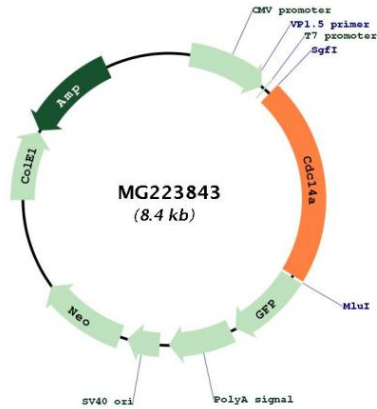
UniProt ID: [Q6GQT0](#)

Cytogenetics: 3 G1

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]

Product images:



Circular map for MG223843