

Product datasheet for **MC219573**

Cdc14a (NM_001080818) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdc14a (NM_001080818) Mouse Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF: >MC219573 representing NM_001080818
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGCGGAGTCTGGGAACTAATCGGGCTTGCAGTTCATGAAAGATCGATTATATTTTGCTACTT
 TAAGGAATAGACCAAAAAGCACATAAATATCCACTATTTCTCCATCGACGAGGAGCTGGTCTATGAAAA
 TTTCTATGCAGATTTTGGACCTCTGAACCTGGCAATGGGTACAGATACTGCTGTAAGCTAAACAAGAAA
 CTAANAATCATAAGTTTCAAGAAAGAAGATAGTGCCTACACCTCTTTCGACCAGCGAAAAGAGCAA
 ACGCAGCATTCTGATAGGTGCTTATGCCGTCTACTTAAAGAAGACACCAGAAGAAGCGTACAGAGC
 TCTCTGTCTGGCTCAAACCTCCTTATCTTCCATTACAGGGATGCATCTTTTGGAACTGCCTTACAAC
 CTCACCGTCTTGACTGTTTACAAGGAATCAGAAAGGATTACAGCATGGGTTTTTTGACTTTGAGACGT
 TTGATGCGGAAGAATATGAACATTATGAGCGAGTTGAAAACGGAGACTTCAACTGGATCGTTCAGGAAA
 GTTTTTAGCGTTCAGTGGACCGCATCTAAAAGCAAGATTGAGAATGGTTACCCTCTCCAGCTCCCGAA
 GCCTACTTTCCATACTTCAAAAAGAACAACGTGACCACGATCGTGAGATTGAACAAAAAGATCTACGAGG
 CGAAGCGCTTACAGACGCTGGCTTCGAGCACTATGACCTGTTCTTCATAGACGGCAGCACCCCCAGCGA
 TAACATCGTGCGGAGATTCTGAACATCTGTGAGAACACCGAGGGGGCCATCGCGGTCCACTGCAAAGCT
 GGTCTGGGAAGAACCGGGACATTGATAGCCTGTTATGTCATGAAACACTACAGGTTTACACATGCTGAAA
 TCATTGCTTGGATCAGAAATTTGCCGACCAGGCTCCATCATCGGACCCAGCAGCACTTCTGAAAGAAAA
 ACAAGCATCATTGTGGGTCCAAGGAGACATTTTAGATCCAACTAAAAATAGACCATCCAGTGAGGGA
 AGTATTACAAAAATTATTTCTACCCTGGATGATATGCTATTGGTGCAAAATTTATCCAAATTACAAAGCA
 CAGAAAGGATTGGAGAGAATAATTTTGAAGACGAAGATATGAAATTAAGAACAACGTAACGCAGGGAGA
 CAAACTACGTGCCTTAAAAAGCCAGAGGCATCCCGCTCCTCGCCATCCTGTGCATTTAGGTCAGATGAT
 ATGAAAGGACACCAAAAGGCAATGGCCAGACTTTCAGATTAAGTTCTCACCGCAACCAACTATGTCGA
 CCATGAAGACCTCAAAGTGTGTTGTCCCTTCACTGACAGCAAAAAAATAAGCCGAGGTTCTTTGTC
 TTCAGGAGCAATATAAGAAGCTTCTCCATAAATCCCGCTAGCCAGTCTCTAGGGAACCTGAACGCC
 GGGACAGAAGAACCTGAGACCAAGAAGACCACATCACTACCAAGGCCGCTTTCATAGCCAGCCATTCA
 CCAGCTTCTTGAATGGCAGCACCCAGACACCTGGCAGAACTACCCTGAGCTCAACAACAACAGTACAC
 CAGAAGCAGCAACAGCAACAGCAGCAGCAGCAGCAGCGGTCTTGGGGCAACCTGAACAGCTCTCCAGTC
 CCCAGAGCGCCAAGCCGAGGAGCACACCACCATCCTTCGACCTTCTTCCCGGGTCACTCTCTTCTCT
 CCTCAGTGAGATTCCTGAGCCGTTCTATACCTTCCCTCAGTCTGAATACGTTTATTACTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001080818
- Insert Size:** 1812 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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:	<u>NM_001080818.2, NP_001074287.1</u>
RefSeq Size:	4511 bp
RefSeq ORF:	1812 bp
Locus ID:	229776
UniProt ID:	<u>Q6GQT0</u>
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] Transcript Variant: This variant (1) encodes the longer isoform (1).