

## Product datasheet for **MC218012**

### **Cdc14a (NM\_001173553) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cdc14a (NM_001173553) 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:** >MC218012 representing NM\_001173553  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAGCGGAGTCTGGGAACTAATCGGGCTTGCAGTTCATGAAAGATCGATTATATTTTGCTACTT  
 TAAGGAATAGACCAAAAAGCACAATAAATATCCACTATTTCTCCATCGACGAGGAGCTGGTCTATGAAAA  
 TTTCTATGCAGATTTTGGACCTCTGAACCTGGCAATGGGTACAGATACTGCTGTAAGCTAAACAAGAAA  
 CTAANAATCATAAGTTTCAAGAAAGAAGATAGTGCCTACACCTCTTTGACCGAGCGAAAAGAGCAA  
 ACGCAGCATTCTGATAGGTGCTTATGCCGGATTACAGCATGGGTTTTTGGACTTTGAGACGTTTGTGC  
 GGAAGAATATGAACATTATGAGCGAGTTGAAAACGGAGACTTCAACTGGATCGTTCAGGAAAGTTTTTA  
 GCGTTCAGTGGACCGCATCTAAAAGCAAGATTGAGAATGGTTACCCTCTCCACGCTCCCGAAGCCTACT  
 TTCCATACTTCAAAAAGAACAACGTGACCAGCATCGTGAGATTGAACAAAAGATCTACGAGCGGAAGCG  
 CTTACAGACGCTGGCTTCGAGCACTATGACCTGTTCTCATAGACGGCAGCACCCCGAGGATAACATC  
 GTGCGGAGATTCTGAACATCTGTGAGAACACCGAGGGGCCATCGCGGTCCACTGCAAAGCTGGTCTGG  
 GAAGAACCAGGACATTGATAGCTGTTATGTCATGAAACACTACAGGTTTACACATGCTGAAATCATTGC  
 TTGGATCAGAATTTGCCGACCGCTCCATCATCGGACCCAGCAGCACTTCTGAAAGAAAAACAAGCA  
 TCATTGTGGTCCAAGGAGACATTTTTAGATCCAACTAAAAATAGACCATCCAGTGAGGGGAAGTATTA  
 CAAAAATTATTTTACCCTGGATGATATGTCTATTGGTGCAAATTTATCCAAATTACAAAGCACAGAAA  
 GATTGGAGAGAATAATTTGAAGACGAAGATATGGAAATTAAGAACAACGTAACGCAGGGAGACAACTA  
 CGTGCCTTAAAAAGCCAGAGGCATCCCGCTCCTCGCCATCCTGTGCATTTAGGTCAGATGATGAAAG  
 GACACCAAGGGCAATGGCCAGACTTTTCAGATTAAGTTTCTCACCGCAACCAACTATGTCGACCATGAA  
 GACCTCCAAAGTGTGTTTGTCCCCTTCAGTGACAGCCAAAAAATAAGCCGAGGTTCTTTGTCTTCAGGA  
 GCAAATATAAGAAGCTTCTCCATAAATCCCGCTAGCCAGTTCTCTAGGAACTTGAACGCCGGGACAG  
 AAGAACCTGAGACCAAGAAGACCACATCACTACCAAGGCCGCTTTCATAGCCAGCCATTACACAGCTT  
 CTTGAATGGCAGCACCCAGACACCTGGCAGAACTACCCTGAGCTCAACAACAACAGTACACCAGAAGC  
 AGCAACAGCAACAGCAGCAGCAGCAGCAGCGGTCTTGGGGCAACCTGAACAGCTCTCCAGTCCCCAGA  
 GCGCCAAGCCGAGGAGCACACCACCATCTTCGACCTTCTTCCCGGGTCACTCTCTTCTCCTCAGT  
 GAGATTCTGAGCCGTTCTATACCTTCCCTTCAGTCTGAATACGTTCTACTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001173553

**Insert Size:** 1665 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:**

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\\_001173553.1](#), [NP\\_001167024.1](#)

**RefSeq Size:** 4338 bp

**RefSeq ORF:** 1665 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]