

## Product datasheet for **MR208789**

### **Cdc14a (NM\_001173553) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cdc14a (NM_001173553) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdc14a
Synonyms:	A830059A17Rik; Cdc14; CDC14a1; CDC14A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208789 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCAGCGGAGTCTGGGAACTAATCGGGCTTGCAGTTCATGAAAGATCGATTATATTTTGCTACTT  
 TAAGGAATAGACCAAAAAGCACAATAAATATCCACTATTTCTCCATCGACGAGGAGCTGGTCTATGAAAA  
 TTTCTATGCAGATTTTGGACCTCTGAACCTGGCAATGGTGTACAGATACTGCTGTAAGCTAAACAAGAAA  
 CTAATAATCATACAGTTTCAAGAAAGAAGATAGTGCCTACACCTCTTTGACCGAGCGAAAAGAGCAA  
 ACGCAGCATTCTGATAGGTGCTTATGCCGGATTACAGCATGGGTTTTTTGACTTTGAGACGTTTGTGC  
 GGAAGAATATGAACATTATGAGCGAGTTGAAAACGGAGACTTCAACTGGATCGTTCAGGAAAGTTTTTA  
 GCGTTCAGTGGACCGCATCCTAAAAGCAAGATTGAGAATGGTTACCCTCTCCACGCTCCCGAAGCCTACT  
 TTCCATACTTCAAAAAGAACAACGTGACCAGCATCGTGAGATTGAACAAAAGATCTACGAGGCGAAGCG  
 CTTACAGACGCTGGCTTCGAGCACTATGACCTGTTCTCATAGACGGCAGCACCCCGAGGATAACATC  
 GTGCGGAGATTCCGTAACATCTGTGAGAACACCGAGGGGCCATCGCGGTCCACTGCAAAGCTGGTCTGG  
 GAAGAACCGGGACATTGATAGCCTGTTATGTCATGAAACACTACAGGTTTACACATGCTGAAATCATTGC  
 TTGGATCAGAATTTGCCGACCAGGCTCCATCATCGGACCCAGCAGCACTTCTGAAAGAAAAACAAGCA  
 TCATTGTGGGTCCAAGGAGACATTTTTAGATCCAACTAAAAATAGACCATCCAGTGAGGGAAGTATTA  
 CAAAAATTATTTTACCCTGGATGATATGTCTATTGGTGCAAATTTATCCAAATTACAAAGCACAGAAAG  
 GATTGGAGAGAATAATTTGAAGACGAAGATATGGAAATTAAGAACAACGTAACGCAGGGAGACAACTA  
 CGTGCCTTAAAAAGCCAGAGGCATCCCCGCTCCTCGCCATCCTGTGCATTTAGGTGAGATGATGAAAG  
 GACACCAAGGGCAATGGCCAGACTTTTCAAGTTAAGTTCCCTCACCGCAACCAACTATGTCGACCATGAA  
 GACCTCCAAAGTGTGTTTGTCCCCTTCACTGACAGCCAAAAAATAAGCCGAGGTTCTTTGTCTTCAGGA  
 GCAAATATAAGAAGCTTCTCCATAAATCCCGGCTAGCCAGTTCTCTAGGAACTTGAACGCCGGGACAG  
 AAGAACCTGAGACCAAGAAGACCACATCACTACCAAGGCCGCTTTCATAGCCAGCCATTACACAGCTT  
 CTTGAATGGCAGCACCCAGACACCTGGCAGAACTACCCTGAGCTCAACAACAACCAAGTACACCAGAAGC  
 AGCAACAGCAACAGCAGCAGCAGCAGCAGCGGTCTTGGGGCAACCTGAACAGCTCTCCAGTCCCCCAGA  
 GCGCCAAGCCGAGGAGCACACCACCATCCTTCGACCTTCTTCCCGGGTCACTCTCTTCTCCTCAGT  
 GAGATTCTGAGCCGTTCTATACCTTCCCTTCACTCTGAATACGTTTATTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208789 protein sequence  
 Red=Cloning site Green=Tags(s)

MAESGELIGACEFMKDRLYFATLRNRPKSTINIHYFSIDEELVYENFYADFGLNLMVYRYCCKLNKK  
 LKSYSLSRKKIVHYTSFDQRKRANAFLIGAYAGLQHGFDFETFDAEEYEHYERVENGFNWIIVPGKFL  
 AFSGPHPKSKIENGYPLHAPEAYFPYFKNNVTTIVRLNKKIYEAKRFTDAGFEHYDLFFIDGSTPSDNI  
 VRRFLNICENTEGAIAVHCKAGLGRGTLIACYVMKHYRFTHAEIIAWIRICRPGSIIGPQQHFLKEKQA  
 SLWVQGDIFRSKLNRPSSSEGSITKIIISTLDDMSIGANLSKLQSTERIGENNFEDMEIKNNVTQGD  
 RALKSQRHPRSSPSCAFRSDDMKGHQRAMAQTFRLSSSPQPTMSTMKTSKVCLSPSVTAKKISRGSLSG  
 ANIRSFINSRLASSLGNLNAGTEEPETKTTSLTKAAF IASPTSFNLNGSTQTPGRNYPELNQYTRS  
 SNSNSSSSSGLGGLNLSPPVQSAKPEEHTTILRPSFPGSLSSSVRFLSRSIPSLQSEYVHY

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001173553

**ORF Size:** 1665 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\\_001173553.2](#)

**RefSeq Size:** 4338 bp

**RefSeq ORF:** 1665 bp

**Locus ID:** 229776

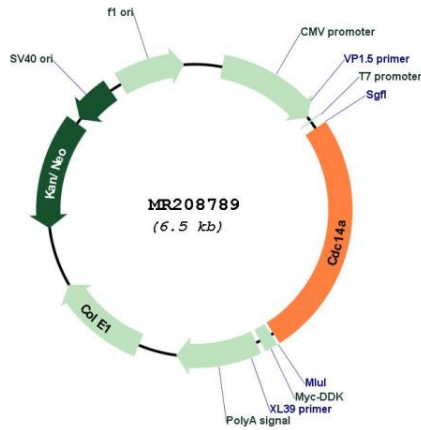
**UniProt ID:** [Q6GQT0](#)

**Cytogenetics:** 3 G1

**MW:** 62.1 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]

**Product images:**



Circular map for MR208789